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This research involved the testing, evaluation, augmentation, and improvement of the Integrated Simulation Evaluation Model Prototype (ISEM-P), a computerized model which simulates the basic planning activities and decision-making procedures involved in the Air Force Manpower and Personnel System (AFMPS) During the period between November 1, 1977 and May 15, 1980, accomplishments of this research included: installing a fully operational version of the model on the Air Force Human Resources Laboratory (AFHRL) computer; extablishing an "ISEM Working Group" of Air Force personnel actively involved in planning and administering the manpower and personnel assignment and training functions within the AFMPS; developing a set of "scenario problems" to test the validity of the model; creating improved output reports for displaying the results generated by the model; executing simulation runs for four selected "scenario problems" and a baseline situation; and modifying the model to eliminate certain identified inconsistencies between the simulation results and observed AFMPS 21. ABSTRACT SECURITY CLASSIFICATION 20. DISTRIBUTION / AVAILABILITY OF ABSTRACT DTIC USERS unclassified 22b. TELEPHONE (Include Area Code) | 22c. OFFICE SYMBOL 22a NAME OF RESPONSIBLE INDIVIDUAL 767-5021 SECURITY CLASSIFICATION OF THIS PAGE DD Form 1473, JUN 86 Previous editions are obsolete.

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benavior. Changes undertaken as a result of this process involved incorporating the concepts of "equal promotion opportunity," cross-training, the "worldwide manning level, "time-on-station, and "time-in-CONUS" into the ISEM-P structure. A design for the rated management supplement was also established for potential incorporation into ISEM-P. The results of the four "scenario problems" simulation runs were analysed and compared to the baseline situation.

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MATTHEW J. KERFER

VOLUME 1

Chief, Technical Information Division

TESTING, EVALUATION, AUGMENTATION, AND IMPROVEMENT OF AN INTEGRATED SIMULATION EVALUATION MODEL PROTOTYPE (ISEM-P) OF THE AIR FORCE MANPOWER AND PERSONNEL SYSTEM

Contract Number F49620-78-C-0001

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Chief Technical deformation Division.

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1.0 INTRODUCTION

The Integrated Simulation Evaluation Model Prototype (ISEM-P) is a computer program, written in the SIMSCRIPT II.5 language, which simulates the basic planning activities and decision-making procedures involved in the Air Force Manpower and Personnel System (AFMPS). The ISEM-P design is based on a modular representation of the AFMPS in which long-range force structure planning, training program requirements, short-range personnel assignment planning, and actual personnel flows are simulated as integrated activities for the purpose of evaluating force structure responses to various mission and policy changes. The basic purpose of the project discussed in this report is to investigate the feasibility of using this simulation approach to predict and analyze the impact of changes in policies, procedures, and environmental conditions on the performance of the AFMPS as a whole. This report summarizes CONSAD Research Corporation's efforts to fulfill this purpose in the context of Air Force Contract Number F49620-78-C-0001.

2.0 RESEARCH OBJECTIVES

At the initiation of the contract, the objectives of the research project were:

- o To install the ISEM-P model on AFHRL computer facilities to permit its continued development.
- o To establish a user panel or working group to posit scenario problems, to evaluate model results, and to recommend needed modifications to the ISEM-P logic structure.
- o To analyze scenario problems developed by the "ISEM-P Working Group," and to generate reports conforming to user specifications.
- o To perform "logic stress tests" to stress the model's logic up to and beyond its design limits to permit corrective actions to be taken which will assure an undistorted evaluation of the scenario problems, and to define the "practical" limits of application of ISEM.
- o To detail thoroughly the actual ISEM-P computer program.
- To provide information on the scenario testing process.

 In the course of pursuing these objectives, several fundamental limitations of the ISEM-P model were discovered. To eliminate these limitations, the project's research objectives were expanded:
 - o To develop within ISEM-P an improved internal personnel assignment procedure reflecting new and broadly detailed understanding achieved during intensive review sessions with the "ISEM-P Working Group."
 - o To implement within ISEM-P a more realistic supplydriven promotion procedure which also accommodates cross-training activities and, thereby, describes actual Air Force practices more accurately.
 - To add a newly conceived time-on-station (TOS) memory capability to ISEM-P to provide substantially more realism and flexibility in the modeling system's structure.
 - o To evaluate an augmented procedure for reflecting within ISEM-P the complex impacts of the rated supplement in the "real" Air Force.

3.0 RESEARCH ACCOMPLISHMENTS

This section summarizes the status of the project relative to its research objectives and discusses the significant accomplishments achieved in attaining this status.

3.1 Installation of ISEM-P on AFHRL Computer Facilities

At the beginning of this project, the ISEM-P program was installed and operational on a CDC 6600 computer located at Wright-Patterson Air Force Base. The initial task of this project was to transfer the program to the Air Force Human Resources Laboratory (AFHRL) computer facility -- a UNIVAC 1108 computer located at Brooks Air Force Base.

To accomplish this task, CONSAD first secured and arranged for the installation of a SIMSCRIPT II.5 compiler for the AFHRL computer. Then, the source code and associated data files of the ISEM-P program were modified to accommodate the differences in word size, naming conventions, storage management procedures, and arithmetic operations that exist between CDC and UNIVAC equipment. In addition, on several occasions, modifications of the ISEM-P source code were performed to overcome a number of errors that existed in the UNIVAC SIMSCRIPT II.5 compiler in early 1978. These compiler errors were later corrected by the compiler vendor. At the conclusion of these activities, a fully compiled version of the ISEM-P model had been established on the AFHRL computer.

At this juncture, CONSAD attempted to execute an operational run of the model and discovered that the AFHRL computer system did not

have enough primary memory available to accommodate ISEM-P. Therefore, CONSAD restructured the program's use of primary memory to permit it to fit within the limited address space available on the AFHRL facility. In fact, staying within the limits of the system's primary memory proved to be a continuing problem as the model was revised and its capabilities were expanded. The corrective actions taken to overcome these capacity limitations included the elimination of obsolete data structures, the tighter packing of arrays, and the transferring of data between primary memory and disc storage as feasible and necessary. As a result of these efforts, a fully operational version of ISEM-P was installed on the AFHRL computer by early March 1978. This version contained essentially the same logic, inputs, and outputs included in the CDC version that existed at the outset of the project.

3.2 Establishment of an "ISEM Working Group"

As required by the contract, an "ISEM Working Group" was established to develop scenario problems which should be simulated by the model to determine its validity, to recommend modifications of the model's logic that would make it more representative of actual AFMPS behavior, to specify the kinds of output that should be generated by the model, and to suggest specific potential users of the model in its final form. The members of the Working Group were all Air Force personnel actively involved in the planning and administration of the manpower, personnel assignment, and training functions within the AFMPS. Thus, group members were drawn from several organizations within AFMPS, including the Air Force Military Personnel Center (AFMPC), the Air Force

Management Engineering Agency (AFMEA), and the Air Training Command (ATC).

Through the end of November 1978, four meetings of the "ISEM Working Group" were convened at AFHRL. These meetings were held on June 1, 1978, June 22, 1978, July 27, 1978, and November 29, 1978. At each meeting, the group members were familiarized with the existing structure, operation, and output of ISEM-P; and their comments and suggestions were solicited concerning each of the topics listed above.

As a result of these discussions, a set of "scenario problems" was developed to test the validity of the model. Each of these "scenario problems" specified a particular change in external (environmental) conditions or internal (policy) parameters to which the AFMPS had to respond at some time in the past. The full set of "scenario problems" delineated by the "ISEM Working Group" included:

- o Decreases in year-end strength ceilings.
- o Opening or closing an Air Force base.
- o Phasing in or phasing out a weapons system.
- o Changes in the retention of rated personnel.
- o Changes in accession rates.
- o Changes in retention rates.
- o Combinations of decreases in year-end strength ceilings, changes in accession rates, and changes in retention rates.
- o Changes in weapon system crew ratios.
- o Changes in the standard length of overseas tours.
- o Changes in on-the-job training rates.
- o Changes in the mix of personnel in the rated supplement.
- o Decreases in available flying hours.

Thus, for example, the first "scenario problem" specifies a decrease in the total USAF personnel authorization, or year-end strength ceiling, in one or more years relative to the authorization for the previous year. Such authorizations are legislated by Congress and, hence, are part of the environment within which the AFMPS functions.

The particular "scenario problems" included in the set were selected because Working Group members knew how the AFMPS had actually behaved in such situations and, hence, would be able to evaluate the ability of ISEM-P to reproduce that behavior if the model were run with similar conditions and parameter values. In addition, the set of "scenario problems" helped to exemplify the kinds of contexts in which the results produced by ISEM-P might serve the interests of AFMPS analysts and planners.

Finally, the selection of previously observed situations as bases for "scenario problems" also had the beneficial effect of defining a useful collection of output reports. To compare actual and simulated behavior, it is necessary to use the same types of descriptions of that behavior. Prior to the meetings of the "ISEM Working Group," the primary outputs generated by ISEM-P focused on only one of the 91 airmen and officer skills included in the model. These outputs comprised essentially a list of the transactions that affected personnel having that skill throughout the simulation run. While these outputs were useful for debugging the ISEM-P computer program, the detailed transactions report, describing several hundred personnel transactions per month throughout the 60 months contained in a five-year simulation run, did not provide the type of information most useful for analysis or evaluation. To rectify this

situation, the members of the "ISEM Working Group" identified a number of variables, and combinations of variables, whose values they wished to see for each year during the simulation run. CONSAD then designed, installed, and implemented seven new reports, and associated data assembly and manipulation routines, to supply the requested information.

3.3 Analysis of Simulation Results

From the set of "scenario problems" listed above, the first two were selected for initial analysis: decreasing year-end strength ceilings and closing an Air Force base. Several additions to the model were required to permit ISEM-P to simulate these scenario problems. Most notably, it was necessary to develop a way to represent the particular sequence of events through which the AFMPS closes a base. The information needed to accomplish the required modification of the model was acquired at the second meeting of the "ISEM Working Group." Then, simulation runs examining the two selected "scenario problems," as well as a baseline situation, were performed. In the baseline situation, no environmental conditions were changed during the course of the simulation run. Thus, in essence, the baseline situation describes an environment in which Congressional authorizations of USAF personnel are constant over time.

The results of the three simulation runs were presented to the "ISEM Working Group" at its third meeting. In general, the members of the Working Group expressed support for the extent to which actual AFMPS decision-making processes were captured in the model. Yet, several notable inconsistencies between ISEM-P outputs and observed AFMPS behavior were identified at the meeting. Intensive discussions

between CONSAD staff and the members of the Working Group isolated the sources of the inconsistencies, and revealed that the selected "scenario problems" had stressed the model's logic beyond its design limits. In particular, the discussions disclosed that the model did not contain adequate representations of the actual AFMPS procedures in the following areas:

- o Airman promotions, where ISEM-P failed to incorporate the Air Force's "equal promotion opportunity" policy.
- o Airman cross-training, where the model relied excessively on mandated reductions in force.
- o Choice of personnel for overseas assignments, where the model failed to recognize time-on-station and timein-CONUS constraints on personnel movements.
- o Selection of personnel to relieve imbalances between base supplies and authorizations, where ISEM-P did not include the "worldwide manning level" as a decision criterion.
- o Designation of CONUS (Continental United States) assignments for personnel returning from overseas tours, where once again the "worldwide manning level" was not considered by the model.
- o Assignment of technical school graduates, where ISEM-P projected graduations for an excessive time horizon and, then, attached improper priority to CONUS bases as assignment locations.
- o Allocation of personnel authorizations for personnel in training, where the model directly offset trainees against the year-end strength ceiling.
- Calculation of manpower requirements for bases supporting different types of missions, where a programming error precluded the transferring to a base any type of mission which did not previously exist at the base.

To determine the precise model formulation appropriate to correct ISEM-P's representations of these procedures, CONSAD conducted numerous telephone interviews with Air Force personnel responsible for the

establishment of manpower requirements, the implementation of manpower utilization policy, the management of reenlistment, the development and application of promotion policy, the establishment of training requirements, the implementation of training and cross-training policy, the setting of recruiting quotas, and force programming. The specific Air Force personnel contacted, and their areas of expertise within the AFMPS, included:

- o Captain Mike Robards, Manpower and Personnel Center (MPC), assignment operations.
- o Captain Bud Dailey, Manpower and Personnel Center Military Assistance (MPCMA), reenlistment policy.
- O Captain Roy Smoker, Air Force Management Engineering Agency (AFMEA), manpower planning.
- o Mr. Lou Catrow, Air Training Command/Technical Training Programming (ATC/TTPP), technical training programming.
- o Captain David Harrington, MPXOP, airman promotions.
- Lt. Colonel Jim Mollicone, ATC/RSOPM, airman procurement.
- o Major Chris Summers, Airman Programs Branch, Force Programs Division, Directorate of Personnel Programs, Deputy Chief of Staff for Manpower and Personnel (MPPPN), first-term management.
- o Sergeant Jean Breeden, MPPPN, force programming.
- o Major Bill O'Connor, MPPPN, trained personnel requirement and reenlistment.

The insights obtained in the interviews of these personnel were incorporated into designs for modifications of the model and, then, transformed into computer code for inclusion in the ISEM-P program. As of November 30, 1978, CONSAD had accomplished the implementation of modifications to the model structure describing a supply-driven

promotion mechanism consistent with the Air Force's "equal promotion opportunity" policy, and identifying the skills providing supplies and demands for cross-training. In addition, designs had been completed for the inclusion of the "worldwide manning level" as a decision criterion in the assignment algorithm, the incorporation of cross-flows and cross-training within the model structure, the consideration of "time-on-station" and "time-in-CONUS" constraints in the assignment process, and the appropriate planning and execution of assignment of technical school graduates. Finally, the programming error discovered in the calculation of base manpower requirements had been corrected; and efforts had been initated to design, and examine the feasibility of implementing, procedures describing the essential characteristics of the Air Force's management of the rated supplement.

3.4 Establishment of a Demonstration Model

The insights obtained in the interviews with these personnel were incorporated into designs for modifications to the model and, then, transformed into computer code for inclusion in the ISEM-P program. As a result of this activity, the final form of a demonstration prototype model was established for use in more detailed experiments with a wider variety of scenarios. This model is thoroughly documented in Annex 1. The following discussion makes reference to various charts and figures in that Annex and it will be assumed that the reader is generally familiar with its contents.

Reducing the differences cited by the working group between ISEM-P behavior and its AFMPS counterpart required several specific changes to be incorporated in the model. These changes are discussed in the remainder of this section.

3.4.1 Promotions

The "equal promotion opportunity" concept was realized by changing the promotion planning algorithm in the aggregate model. Instead of calculating promotions from one grade to the next higher grade solely on the basis of the demand within a particular skill, the total demand, summed over all skills, is calculated and a single promotion rate (for each grade) is computed which applies to all skills (Chart 3). The number of promotions to a given grade within a skill is obtained by multiplying the number eligible for promotion in the lower grade by this rate. Hence, the actual promotions to be awarded in a skill/grade group are independent of the particular promotion demand for that skill in higher grades and, instead, are dependent on the number of eligibles in the lower grade (and, of course, the overall rate).

The model computes officer promotions in exactly the same way as airmen promotions. This uniformity of method is a carryover from the original model design. While those interviewed suggested that officer promotion is influenced by more factors than in the airmen case, they also indicated that these factors were often idiosyncratic to particular skills and particular grades. To incorporate such factors in the model would have expanded the promotion planning algorithm into a set of different algorithms, each relating to a different set of skill/grade

groups. The additional data gathering and analysis required to formulate these algorithms was felt to be unwarranted for the prototype at this time.

3.4.2 Airmen Cross-Training

The implementation of cross-training required augmentations to both the aggregate and assignment models. In the aggregate model, a flow path was added for personnel to transfer from one skill to another (Chart 7). Cross-trainees retain their grade and year-group membership. Since cross-training is stimulated by perceived shortages in various skills, the computation of how many personnel may possibly cross-train, and how many will actually volunteer to do so, is based on the year-end inventory after all other flows have been taken into account.

A fairly simple algorithm for assigning cross-trainees to schools at particular times was added to the assignment model (Chart 8). No attempt was made to coordinate such assignments with mandated moves, such as returning from overseas duty. Instead, CONUS personnel from the skill/grade groups chosen as cross-training sources by the aggregate model are assigned to fill the cross-trainee production quotas (at schools) also established by the aggregate model. The number to be drawn from each base is proportional to the relative population of the bases in that skill/grade group. Several changes were also required in the school flow algorithms (Chart 13) to permit the matching of dispositions to graduates by grade level. Previously, schools were assumed to train personnel in only one grade, but with cross-training there may be personnel at various grades in training simultaneously.

3.4.3 World-Wide Manning Level

Instead of using only base authorizations in assignment planning, the model was changed to reflect the use of base entitlements as assignment targets (Chart 9). The basic idea is that each base is entitled to that fraction of available personnel which corresponds to its authorization relative to all other bases. If Air Force-wide overages (or shortages) exist in a personnel group, the assignment algorithm will increase (or decrease) entitlements proportionally. In this way, assignments can be responsive to current conditions despite fluctuations in the stock caused by higher level decisions, such as promotions, over which assignment planners have no control. The world-wide manning level (WWML) is used to gauge the extent of overages and shortages. In ISEM-P, the WWML by skill and grade is computed as the total available personnel in each group (including projected school graduates) divided by the total authorization for that group.

3.4.4 Overseas Levies

AFMPS uses two main criteria for choosing personnel to be assigned to overseas duty when there are insufficient volunteers for such duty to fill the demand. First, a record is kept of the total number of overseas tours each person has taken and those with fewer tours are selected in preference to those with more. Second, within the set determined by tour-count, those with longer incumbency in CONUS posts are selected before those with shorter incumbency. The objective of this policy is to allocate personnel to overseas tours equitably.

The second of these two criteria was chosen for incorporation in the model since it was determined to be easier to represent. For each skill/grade group at each CONUS base, a record is kept of the distribution of personnel residing there by months of incumbency. This record is called the "time-on-station memory" or "TOS memory" for short. The total number that have resided at their base longer than a minimum time are deemed eligible for overseas tours. This number is called the "TOS status." Personnel are selected from bases in proportion to the fraction of total eligibles appearing at each base (Chart 9). Volunteers are not represented.

Since it is possible for personnel to remain in the CONUS at a succession of CONUS assignments, two memories were initially added to the model. The first kept track of the incumbency distribution at each base (the TOS memory) and the second maintained a CONUS incumbency distribution over all bases (a "time-in-CONUS memory"). However, it was found that the vast majority of reassignments of CONUS personnel were made to overseas bases and so the CONUS incumbency distribution was highly correlated with base incumbency distribution. Hence, to reduce core storage requirements, the CONUS incumbency distribution was deleted.

3.4.5 Assignment of Technical School Graduates

Two changes were made in the model to more accurately represent assignments of graduates. First, instead of assigning on the basis of school production projections, no assignments are made until personnel have actually entered a training pipe. Second, preference is given to overseas assignments over CONUS assignments for new graduates.

3.4.6 Other Changes

A number of other changes were made to the model to accommodate the modifications listed above and to correct various programming errors that were previously known or were revealed in adding new capabilities. Among the more important changes were:

- The use of temporary disk files to hold assignment orders during the interval between assignment planning and personnel flow. Exceeding machine core storage capacity has been a continuing problem with ISEM-P. Adding a new data structure, such as the TOS memory, nearly always requires that some other data structure be revised (to make it smaller) or replaced by a disk file. It was found that the cyclic use of assignment orders (i.e., create them at planning time, hold them until realization time, then dispose of them) lent itself in a natural way to temporary disk storage. Hence, the PCA files and assignment files were added to the model (Charts 8 and 9).
- o The reporting programs were augmented to include the printing of TOS information. Also, the capability to generate a history file (Section 4.3, Annex 1) was added for use in more detailed analyses.
- A new method of constructing distributions of integer quantities so as to fit a probability distribution was added. It is often necessary in ISEM-P to disaggregate a given number of personnel into subtotals according to a list of fractional amounts. For example, given the number of personnel in a skill/grade group to be promoted in a particular month, this number must be split among the various bases where such groups reside according to the fraction of total group population at each base. Previously, a rolling accumulator method was used to save the roundoff error incurred in multiplying by each fraction until this error exceeded 1.0. Then, an extra person was added to the current subtotal. However, this procedure tended to favor the later subtotals in the computation over the earlier ones. The new method distributes roundoff error by applying it to subtotals which are farthest away from the true fraction. An option was also added whereby roundoff error can be allocated probabilistically to subtotals (the routine in the program is known as RANDOM.ROUNDING).

o Simulation of the effect of on-the-job training (OJT) was deleted from the model. At the level of aggregation at which ISEM-P operates, the constraints on promotions imposed by the need for personnel to complete OJT was determined to be irrelevant.

3.5 Selection of Demonstration Scenarios

Of the twelve scenario problems suggested by the working group, four were selected for further study, along with the baseline case.

These four were:

- o Closing a base: Determine the effect of eliminating one of the bases in the model during the course of a run by reallocating to a second base all missions initially assigned to the closing base and reassigning personnel as needed according to a specified transfer plan.
- o Decreasing year-end strength ceilings: Determine the effects of repeated reductions in Air Force personnel budgets by reducing total authorized end-strength ceilings by a fixed percentage each year.
- O Decreasing available flying hours: Determine the effects of decreasing the squadron utilization rate (flying hours/month) for a particular type of aircraft at some point during a model run.
- Changing retention rates: Determine the effects of an unexpected change in attrition in certain skills which occurs during one year of a model run.

The baseline case defines what will be called the nominal operation of the system. In the baseline, all environmental conditions and planning parameters remain the same throughout a run. The scenario problems can be viewed as deviations, or perturbations, from the nominal; and the behavior of the model, relative to its baseline behavior, can be viewed as its response to such conditions.

The other eight scenario problems were eliminated from further study for the following reasons:

- Changes in retention rate of rated personnel, changes in weapon system crew ratios, and changes in the mix of personnel in the rated supplement. Accurately modeling the effects of these changes would require a representation of the rated supplement to be included in the program. This personnel category serves as both a source and a sink for rated officers and so would be affected by any changes in parameters which apply exclusively to rated officer skills. Although a design for a model of the rated supplement was developed (see Annex 2), it was not incorporated into the ISEM-P program because the extra storage space it would require would exceed machine core storage capacity, given the size of the rest of the program.
- Phasing in or phasing out a weapons system. It was decided that this scenario involved too many simultaneous changes to be considered in an initial demonstration. Since the purpose of the scenario testing process was to determine the basic capabilities of the model, and its design limits, it was felt that trying to do too many things at once would produce unanalyzable results.
- Changes in accession rates. ISEM-P was designed on the assumption that accession constraints should not be imposed in a prototype. Hence, nothing was included to represent the various actions which might be taken in response to surpluses or shortfalls in accessions, either in the aggregate (over the course of a year) or from month to month. Thus, accession rates were not taken as an exogenous variable and this scenario is outside the scope of the current model.
- Combinations of decrease in year-end strength, changes in accession rates, and changes in retention rates. As with the weapons system phase in/phase out scenario, it was felt that investigating one class of change at a time would be more profitable in an initial demonstration effort than trying to determine the effect of several perturbations at once.
- o Changes in on-the-job training rates. The effects of this kind of change would not be visible at the level of aggregation established for ISEM-P.

Changes in the standard length of overseas tours. In order to conserve core storage space, the ISEM-P program uses a fixed distribution to represent incumbency times at overseas bases. This works well under nominal conditions — the personnel flows that affect overseas bases tend to preserve the initial distribution. However, if tour lengths are to be changed during the course of a run, modeling the transition between one stable distribution and another would require a more dynamic memory. Thus, this scenario is beyond the capabilities of the current program.

4.0 SCENARIO ANALYSIS

This section describes the results obtained from running the ISEM-P program with five different input specifications corresponding to the five scenario problems described above. (For the sake of uniformity, the baseline case will be termed a scenario, as well as the others.) Each scenario run will be described in terms of its purpose, input specification, observed results, and the knowledge gained from the run.

4.1 Scenario 1: Baseline

4.1.1 Purpose

The purpose of Scenario 1 (S1) was to establish behavioral norms for the model. Since ISEM-P contains many components, norms for each component had to be determined. This determination would indicate whether the ISEM-P program correctly implemented the algorithmic portions of the model, whether the input data were being properly used, and whether the combination of data and algorithms produced behavior consistent with expectations. In addition, some characterization of the overall behavior of the model, produced by the interaction of the components, had to be developed. "Overall behavior" means the evolution of the simulated force structure over time. For this characterization, it was important to determine the ways in which each component responded to the state of the force structure created by previous actions and to evaluate the extent to which these responses were consistent with expected AFMPS behavior.

4.1.2 Input Specification

The input data to ISEM-P may be divided into two conceptual classes. The first class, which will be termed "parametric data," consists of those values which users of the model are expected to vary from run to run. The second class, "characteristic data," consists of information expected to remain constant from run to run.* The two classes are separated into two input files, the Model Configuration File and the USAF Characteristics File, respectively. The meaning of each data group is described in Annex 1 and a listing of each file for S1 appears in Appendices E and F of that annex.

The primary parametric data consists of a specification of a mission plan for each year of the model run and corresponding authorization ceilings for those years. In S1, the mission plans and ceilings for each year are the same as that specified for year 0. The assignments of missions to bases comprising this plan are shown in Table 1. A summary, in matrix form, is shown in Table 2. (This assignment corresponds to the actual missions performed in 1976 at the bases shown.) Authorization ceilings in S1 are intended to be non-constraining and so the rate of change in the ceiling is set at zero. This means that the ceilings on total airman and officer supplies will always equal the total airman and officer requirements.

All other parameters are set to nominal values, i.e., 91 skills, 17 bases, and default values for retention variance, minimum manning, and cross-training parameters as described in Annex 1. Travel times

^{*}Of course, this grouping is only conceptual -- it is certainly possible to vary the characteristic data from run to run if desired.

TABLE 1: Mission Plan for Baseline Scenario

Bas			Missions								
Number	Name	Number	Type								
Training Bases											
1 2 3	Lackland Lowry Williams	11 10 8	Initial Training Technical Training Undergraduate Pilot Training (T-37/T-38)								
Operation	ns Bases		Squadron	Aircraft	Flying Hours/ Month						
4	McGuire	6	2	C-141	80						
. 5	Travis	2 6	1 2	KC-135 C-141	30 80						
6	Homestead	3	3	F-4	25						
7	Ellsworth	1 2	1 1	B-52 KC-135	45 30						
8	Grandforks	1 2	1 1	B-52 KC-135	45 30						
9	Loring	1 2	1	B-52 KC-135	45 30						
10	Pope	7	3	C-130	55						
11	Shaw	4	3	RF-4	25						
12	Mountainhome	5	3	F-111	. 25						
13	George	3	3	F-4	25						
14	Bitburg	3	3	F-4	25						
15	Alconbury	4	3	RF-4	25						
16	Kadena	3 4 7	1 1 1	F-4 RF-4 C-130	25 25 55						
17	Kunsan	3	3	F-4	25						

^{*}A base support mission (12) is assigned to each base in addition to the missions shown. A flying support mission (9) is assigned to bases 3-17 as well.

TABLE 2: Summary of Baseline Mission Plan

			-															
Skills Per	Base	61	73	78	99	89	99	72	72	72	99	65	65	99	99	9	73	99
BS	12	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
II	11	×																
TT	10	,	×															
FS	6			×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
T-37/ 38	8			×												•		
C-130	7		_								×						×	
C-141	(و				×	×												
F-111	5									_			×	-				
RF-4	4				-							×				×	×	
F-4	3						×							×	×		×	×
KC- 135	2					×		×	×	×								
B-52	-							×	×	×								
	Bases	- :	73	~	4	ഹ	9	2	8	6	10	11	12	13	14	15	16	17

were derived by multiplying an average ground-travel rate by interbase distance for intra-CONUS pipes, and by assuming a one- or twoday flight to overseas bases. Overseas travel pipe capacities were estimated by multiplying an average booking fraction by the number of commercial airline seats/day going to and from particular pairs of bases. The length of the run was set at five simulated years.

The characteristics data will not be discussed here. The sources and meaning of each data group are described in Annex 1 and the actual values used appear in Appendix F of that annex.

- 4.1.3 Results from the Aggregate Model
- 4.1.3.1 Manpower Requirements Determination

Manpower requirements are very important in the model because they are used to initialize the force structure. In addition, they are the basis for determining authorizations. The relationship between missions and skills is shown in Table 3 and the requirements calculated for S1 are shown in Figure 1.* Since the mission plan and authorization ceilings remain the same for all years, the same requirements will be calculated for each year of the run.

Of all the numbers displayed, the totals shown on the right are most indicative of the behavior of this component. For each skill, the total requirement at each base is computed as a function of the mission plan (by the methods described in Annex 1, Appendix D) and then summed over all bases to produce the totals displayed. The breakdown by grade is estimated simply by multiplying the total in each skill by the grade standard for that skill.

^{*}Figures for this section appear in the appendix to this volume.

TABLE 3: Mission Skill Requirements

Airmen

Missions

		KC-						T-37/				f]
Skills	B-52	135	F-4	RF-4	F-111	C-141	C-130	38 8	FS 9	TT 10	IT 11	BS 12
1	X	х		•		x	x				x	X X
2 3 4 5 6 7 8 9									X X X X X X X	X X X X	X X X	x
11 12 13 14 15 16	x	1							X X X X	X X X X X	x x	x x
18 19 20 21 22 23	X X X X	X X X	X X X X	X X X	X X X	X X X	X X X	X X X X X		X X X X X	x x	
24 25 26 27 28	x	x	x	x	x	x	x	x x	x	X X X X	X X X	x
29 30 31 32	X X	X X	X X	. X X	x x	X X	x	X X	x	X X X	X X X	
33 34	х		х	x	х					X X	X X X	X X
11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	x	x	x	x	x	x	x	x		X X X X X X	X X X X X X	į
43 44 45 46 47 43 49 50 51	x	X	x	x	x	x	x	x		***************************************	X X X	X X X X X X X X X X

TABLE 3 (continued)

Officers

Missions

		VC-						T-37/				
	B-52	KC- 135	F-4	RF-4	F-111	C-141	C-130	38	FS	TT	IT	RS
Skills	1	2	3	4	5	6	7	8	F S 9	TT 10	11	BS 12
52						х						
53	1						Х	X			ı	
54	[х			'			x				
55	1		х		}			X	1			}
56	1]		ì	х			X X X X X X X X X X X X X X X X X X X	Ì			
57	X			!				x	ľ			•
58	ł	}		X	ł	ì		х				}
59	X	1	l	l	l	l		x	l			
60	1	Х	ł	1	ŀ	1		Х	ł			1
61	1	İ	1		İ		x	Х]			1
62	1	1		}		Х	Ì	Х]
63	1	1	·x	\	į	ļ		X	l			1
64	'	1	j	X	j	1	ļ	X	}	Ì]	
65		ł			х			X	İ	Ì	•	1
66	X	1]	j]	}]	X	}	ļ	J	
67	1	\	1	\	{		1]	X X X		X X	
68]	!	i		}]		1	X	X	X	}
69	1	ļ	l	<u> </u>	İ	1		1	X	X	х	
70	1	İ	ţ	l	\	ļ	1	Į.	l X	X	х	X
71	, ,			ĺ			x		į.	A		1
1/2	X	x	X X	X	X	х	^	X	x	1 🗘	X X	1
73	^	ĺ	^	x	^	[1		^	\$	x	v
75	1	1	}	1	<u> </u>	l .	<u> </u>	ł	1	Ŷ	x	l û
76	1		İ	1	i	{	Ì	1	1	Ŷ	 ^	Î
77	1	i	1	1		ļ	İ		1	Ŷ	x	Ŷ
78	ł	1	i	ļ	1	Ì	į .	i	1	Ϋ́	<i> ^</i>) x
79	1	1	}	1	1	1	1	1	}	X	1	X
80	ł	ł	ł		1	l	1	}	ł	X	X	X
81	Į.	ł	1		1	1			1	X	x	X
82		1	1	1	ł	1	1	}	1	х	X	X
83	1	ì	1	i	1	1	1	1	1	X	X	X
84	1	ł	1	1	1	1	ļ	1	1	x	X	x
85	1	1	}			i	1	1	1	X	X	x
86	Į	· ·	1	Į	1	Į.	1	I	Į	X	X	X
87	1		ì	1			1	1	1	X		X
88		1	1	1	1	j	1	1	}	X	1	X
89	1	1	I	1	1	1		1	1	X	X	X
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 71 72 73 74 75 77 78 81 82 83 84 85 89 91	1	i	1	1	ļ	1	1	1	l	X X X X X X X X X X X X X X X X X X X	1	X X X X X X X X X X X X X X X X X X X
91	-	1		1		1	1	1	1	X	[X
L	<u> </u>	<u> </u>								<u></u>	1	<u>!</u>

It is difficult to compare the requirements calculated by ISEM-P with those for the real Air Force. The fraction of total manpower in each skill need not be the same as the fraction for the whole force since the missions to be performed at the 17 bases in the model are not necessarily a proportional subset of all Air Force missions. Moreover, the requirements for instructors at the three training bases will almost certainly be lower than the actual requirements because the training load for a 17-base force is much lower than for the total force.

Nevertheless, if the ISEM-P results are in fact representative, certain ratios ought to be consistent with those for the whole force. The officer/airman ratio in the model is about 0.19, which is close to that for the whole force.* The model's distribution of airmen required in mission functions, mission support, and base support** is 0.31, 0.18, and 0.51 compared to about 0.38, 0.17, and 0.45 for the same skill categories in the whole force. The ratio of rated officer spaces to non-rated is 0.31 in the model compared to about 0.34 in the whole force.

If analysis is pursued to the level of individual skills, there appear to be certain anomalies in the model outputs. For example, the five largest airman skills in the model (i.e., skills for which there exists the greatest requirements) are different than those for the whole force:

^{*}The term "whole force" will mean the manpower (spaces) required in the full Air Force for those skill classifications included in the model. Data on Air Force manpower was abstracted from the Unit Detail List aggregates supplied to CONSAD by AFMEA in 1978.

^{**}Categories 1, 2, and 3, respectively.

The Five Largest Airman Skills

ISE	M-P		Whole Force							
46	70XXX	Administration	29	431X1	Jet Aircraft Maintenance					
49	81XXX	Security Police	27	42XXX	Aircraft Acc. Repair					
27	42XXX	Aircraft Acc. Repair	49	81XXX	Security Police					
43	64XXX	Supply	43	64XXX	Supply					
50	90XXX	Medical-Dental	50	90XXX	Medical-Dental					

Why is skill 46 the largest skill in the model, where it is not even among the top five in the whole force, and why is skill 29 not among the top five in the model, whereas it is the largest in the whole force?

The reason for the large requirement in skill 46 seems to stem from counting all the trainees who will flow through the training bases (Lackland, Lowry, and Williams) during a year as part of the estimated population of that base in determining manpower. The number of trainees/year is large compared to the population of a typical base and so the training bases will appear to have the largest population. Skill 46 has the largest skill coefficient of all the base support skills (i.e., the ratio of the requirements in skill 46 to total base requirements is the largest among all base support skills). Multiplying this coefficient times the estimated training base populations produces an inordinately large requirement for skill 46.

The reason for the relatively low requirement for skill 29 is less clear. Both skill 29 and skill 27 are maintenance skills and the requirements for them are calculated from the equations in Annex 1, appendix section D.1.2. They are both derived from the total maintenance requirements (TMR) for each mission. Specifically:

REQ (27) =
$$C_{27} \times (0.392 \times TMR)$$

REQ (20) = $C_{19} \times (0.350 \times TMR)$

where $C_{27} = 0.82$ and $C_{29} = 0.79$ for all missions. The parenthesized expressions here come from mission manning standards and the skill coefficient values come from 1976 UAR (Uniform Airman Record) population statistics. Thus,

$$REQ (27) = 0.371 \times TMR$$

REQ (29) =
$$0.276 \times TMR$$

These equations suggest that the discrepancy stems from the values of the skill coefficients. It is suspected that either: (1) a clerical error was made in deriving them from the UAR, or in entering them into the input file, or (2) that the population statistics for 1976 do not yield good estimates of relative manpower requirements in 1978.

One might also consider the five smallest airman skills in the model:

The Five Smallest Airman Skills

ISE	M-P		Whole Force							
		Instrument Trainer Navigator Trainer			Prop. Engine Mechanic Weather Equip. Repair					
24	341X2	Defensive Sys. Trainer	24	341X2	Defensive Sys. Trainer					
11	293X3	Radio Operator	23	341X1	Instrument Trainer					
17	321X0	Bomb & Nav. Mechanic	5	22XXX	Photomapping					

There are more differences here than in the table of the five largest skills and the sources of the discrepancies are more varied. For skill 31, ISEM-P includes a propeller-driven aircraft, the C-130, which was part of the equipment inventory in 1976 but was not in 1978. Hence, there is more of a requirement for skill 31 in the model than in the 1978 force. The low requirements for trainers in the model, skills 23, 24, and 25, is a function of the small training loads generated by a 17-base force. Skill 17 is not a large skill in the whole force and is low in the model because of a low ratio of bombing missions to other types in the mission plan.

Skills 5, 11, and 12 are all part of ISEM-P's "Comm-Weather" family (Annex 1, appendix section D.2.3). The requirement for skill 12 is entered directly as a constant in the input file while the other two skills requirements are computed from an assumed communications workload at a typical base. Each base in the model to which a Flying Squadron mission is assigned will have spaces allocated to it for these skills and the number/base in each skill will be the same. It would appear that the difference between ISEM-P and the whole force could come from either: (1) the smaller number of bases in the model (since these requirements are essentially a function of the number of bases) or (2) errors in the skill coefficients of the kind described above.

In the large, the manpower component seems to be working properly. However, since some decisions in the model depend on the relative proportion of personnel in the different skill classifications (notably the distribution of promotions across skills), and since some anomalies have been observed (such as the unduly high influence of the training bases on base support skill requirements), it would be desirable to validate manpower results for each skill. Specifically, it is recommended that:

- o The manpower requirements calculated by the model for each base should be compared with the Unit Detail List for that base (or one performing the same missions) to determine correspondences in totals on a skill-by-skill basis.
- o Where discrepancies are found, it should be determined whether the error lies in skill coefficient values or in the assumptions used in calculating requirements.

 Appropriate corrective actions should then be applied to the model.

4.1.3.2 Authorization Calculation

In S1, authorizations by skill and grade are set equal to manpower requirements for each year, as indicated in Figure 1. Hence, total end end strength for airmen and officers is equal to total requirements -- 44660 for airmen and 8401 for officers.

4.1.3.3 Loss Projections

The personnel inventory is initialized by distributing the calculated aggregate requirements in year 0 across year groups according to distributions given in the USAF Characteristics file. Summing over all skills in the inventory yields the year group populations shown in Figure 2. The number of personnel in grade level 1 is set equal to the total in grade level 3 in order to provide a source of promotions into level 3. In the real inventory, the number of personnel in level 1 at any point in time is equal to the trainee population which, in turn, is a function of the estimated demand for graduates to fill entry level positions.

Multiplying each cell in the inventory times an expected retention rate, supplied by input data, yields expected separations and a projection of the inventory minus the losses. The retention rates used vary by grade, year group, and whether a skill is an officer skill or an airman skill. The same retention rates are used for each year of the run. The inventory, of course, changes each year as the model operates. The following assumptions are implicit in this simple estimation scheme:

That the actual loss estimation procedure can be approximated by a proportional relationship.

- o That grade and year group are the most important factors used in estimating losses and so differences in expected retention rates for different skill classifications can be ignored in a prototype model.
- o That revisions in the expected retention rates from year to year can be ignored in the prototype.
- o That loss estimates do not depend on the particular bases to which individuals are assigned.

4.1.3.4 Promotion Planning

Figure 3 summarizes the information used in promotion planning and the calculated results. The promotion rates specify the fraction of eligible personnel in each grade which must be promoted to the next higher grade in order to fill the projected demand in the higher grade. The demands for level 1 personnel indicate the total number of accessions needed for the year.

For the officer force ("Skill -1"), the promotion planning component behaves as expected. There are sufficient personnel eligible in each grade to meet the demand in the higher grade and the inflow into level 1 exactly balances the total separation losses. If the projection is accurate, following the specified plan will cause the inventory by grade at the end of year 1 to equal the inventory by grade at the start, and so the total number of officers at year end will equal authorized end strength.

For airmen, the promotion plans shown will not meet end strength goals. The central problem is a lack of sufficient personnel in level 3 to meet promotion demands into level 5, as indicated by the "promotion failure" message. The full upgrade demand is 4,982 (vacancies at level 5 plus higher level demands), but the number eligible to be promoted out of level 3 is only 2,693. Note also that the total projected

inventory in level 3, 4,183, is less than the demand at level 5. The response taken by the promotion algorithm is to fill as much of the demand as possible by promoting all the eligibles out of level 3. This limits the shortfall to the level in which it occurs. Other strategies, such as relaxing the eligibility constraints or overpromoting into level 3, were not investigated since it was not clear how AFMPS would respond to a similar situation.

What was clear was that this was a very unlikely situation. Since the promotion algorithm worked for the officers, it was concluded that there must be some inconsistencies in the data characterizing the airman force. There are four input data groups which affect the values used in promotion planning for year 1: promotion windows, retention rates, grade standards, and initial year group distribution. The last three interact in the determination of vacancies by grade since they determine the number of expected separations. The grade standards determine the population by grade and hence determine the maximum size of the sources for promotion. The promotion windows constrain the promotion sources to that portion in eligible year groups.

Upon comparing the grade standards used by the model to a set derived from Unit Detail List aggregates, it was found that the standards in the model tended to be larger in levels 5, 7, and 9 at the expense of lower levels. Instead of an overall distribution of about [0.1, 0.1, 0.43, 0.33, 0.04] across the five grade levels as in the model, the manpower figures yielded a distribution of the form [0.23, 0.23, 0.38, 0.14, 0.02].* This latter distribution would clearly

^{*}Assuming, as in ISEM-P, that the level 1 population is approximately equal to the level 3 population.

increase the population in level 3 and also might lower the promotion demands upon it since there would be fewer separation losses to be replaced in higher levels.

When a run was made using the newly derived standards for airmen, the promotion failure disappeared. Hence, it was concluded that these standards were more consistent with the other data than the original ones. Moreover, since distributions derived from manpower figures more accurately express desired grade populations than distributions derived from historical personnel statistics, it is recommended that such objective grade standards replace the ones currently being used.

The initial year group distribution should also be modified slightly. The aggregate model assumes that all personnel in level 3 at the start of a year will have attained at least one year of tenure in the force. Hence, there should be no level 3 personnel in year group 1. It appears that this assumption was not reflected in the initialization data and so there is a non-zero population in this cell for year 1 only. The data should be changed so that all personnel in year group 1 are considered to be in level 1, not level 3. In terms of actual Air Force grades, what this means is that all airmen in grade E-3 are assumed to have at least one year TAFMS by the time they are promoted to that grade.

4.1.3.5 Aggregate Flows

The principal changes in the inventory over the course of a year result from actual separations, promotions, the inflow of recruits through training pipelines, and aging. The first three of these are summarized

by skill and grade in the report shown in Figure 4. The effects of aging may be observed in the year group population display for the following year, shown in Figure 5.

In S1, actual separations are taken to be exactly equal to the estimates. It was assumed that the estimates used by AFMPS were at least close to the actual losses in the real force. Making separations match estimates exactly in the model considerably simplifies the interpretation of the baseline case.* Nothing is included in the separation mechanism to represent the effects of either external labor market incentives to separate or internal Air Force incentives (or disincentives) to remain in the force. These, and other aspects of simulating retention policies, depend strongly on having a labor market submodel which adequately captures the unique features of Air Force employment and its relation to external markets. An effort to develop such a submodel has been going on in parallel with the development of ISEM-P.

The effects of the equal promotion opportunity policy are quite striking. Before its inclusion in the model, promotions were made in such a way that the population in each grade level in each skill exactly met authorizations by skill and grade. As can be seen in Figure 4, it is now the case that hardly any skill/grade group matches its authorization. Nevertheless, in all grades but one, the total population by grade equals the total authorization by grade for both airmen and officers (the "Grand Total" entries in Figure 4).

^{*}In scenario 5, separations are made to deviate from estimates in order to determine the effect of this assumption.

The shortfall of airmen in level 5 is a result of the promotion failure discussed ea tier. Because level 5 demands could not be met, and no extra accessions were made to cover the loss, total airman separations exceeded total airman accessions for the year. Overall, the population decreased by about 5 percent and so the airmen came to be that much below total authorized end strength at the end of the year. Looking at individual skills, only eight (skills 1, 2, 4, 5, 17, 23, 24, and 48) had accession inflows which equaled or exceeded separation outflows. Thus, virtually every skill declined to some fraction below authorization. This shortfall by skill is important because it prevented the cross-training mechanism from evening out the differences between authorizations and inventory, as will be discussed shortly.

Certain skills reveal unanticipated interactions between authorization characteristics and the method of allocating promotions across skills. Consider, for example, skill 11. Since there is a zero authorization at level 3, and so also a zero population at that level, there are no promotions out because there are no personnel eligible for promotion. With no promotions out, there is no demand for promotions in and hence no corresponding demand for accessions into skill 11. The only way that skill 11 can ever gain personnel would be through cross-training.

This situation appears to be unrealistic. First of all, in the actual force, the authorization of skill 11 in level 3 is not zero. It turns out to be zero in the model only because skill 11 is so small that the level 3 authorization is eliminated by roundoff error. Second, it is not clear whether in reality a zero authorization at level 3 would preclude recruiting new personnel into that skill from outside. In general, separation

losses must be replaced by new, trained personnel. That is, the TPR for any skill projected to decline below authorization will be non-zero. From the interviews conducted, it could not be determined whether recruits could be classified into skills for which there were no authorized entry level spaces. It would be desirable to resolve these issues, either by adjusting the grade standards to provide non-zero authorizations or by obtaining a clarification of classification policies for recruits.

Several officer skills also have zero authorizations in the model at level 3 for the same reason as skill 11. Note, for example, skills 71, 76, 79, 81, and 84. However, the model includes no mechanism for lateral flows among officer skills and so there is no way at all for personnel stocks in these skills to ever increase. If the model were run long enough, such stocks would disappear entirely through attrition. Lateral flows were omitted from the model on the officer side because, to be realistic, they should interact with the management of the rated supplement. But, given the problem with the above skills, it is recommended that a lateral flow procedure, based on the cross-training procedure already developed for airmen, be installed for non-rated officer skills. This procedure should eventually be integrated with the rated supplement management simulation described in Annex 2.

4.1.3.6 Cross-Training

It had been expected that cross-training flows would correct imbalances in airman skill/grade groups by transferring personnel from groups over authorization into groups that were under. However, the model assumes that only skills which are over the total authorization for that skill can be sources of cross-trainees. Because of the promotion

failure into level 5, however, very few skills came to be over authorization and the vast majority are under authorization. Hence, not much cross-training is observed in the model.

Moreover, it appears that the cross-training procedures implemented in the program do not always find all the cross-training sources which are available. Skill 4, for example, happens to be one of the few skills which is over authorization at the end of year 1. Yet, in the run reported in Figure 4, it was not selected as a cross-training source. In other runs, such as the one used as an example in Annex 1, section 2.7, skill 4 was found and the correct cross flow was obtained. The reason for this variation in response is not known.

4.1.3.7 Longitudinal Phenomena

The evolution of the aggregate inventory over the five years of the run is shown in the year group population displays appearing in Figures 2, 5, and 6. These results are summarized in terms of nontrainee populations by grade in Table 4. Let us examine the officer populations first.

Two observations might be made. First, as shown in Table 4, officer populations by grade meet authorized end-strength in all years but the last. The anomaly in the fifth year's level 3 population points up a problem in the aggregate model's treatment of level 1 personnel.

Instead of generating accessions each year to meet level 3 demands, as should have been done, the level 1 population for a given year is taken to be the previous year's accessions. Then the simple multiplicative promotion algorithm is applied at level 1 just as at all other levels.

This leads to a problem as soon as the accessions required in a year

TABLE 4: Populations by Grade Over Five Years

OFFICERS

	Level 3	1 3	Level 5	1 5	Level 7	1 7	Level 9	6 1	Total	al
	Number	Number Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Authorization	1527		3320		2111		1443		8401	
Year 1: Population Separations	1527 192	12.6	3320 303	9.1	2111 328	15.5	1443 56	3.9	8401 879	10.5
Year 2: Population Separations	1527 158	10.3	3320 115	3.5	2111	13.2	1443	5.1	8401 624	4.7
Year 3: Population, Separations	1527 33	2.2	3320 121	3.6	21111	13.7	1443 98	8.9	8401 542	6.5
Year 4: Population Separations	1527 109	7.1	3320 139	4.2	2111	14.5	1443 119	8.2	8401 674	8.0
Year: Population Separations	1395 91	6.5	3320	.:	2111 246	11.7	1443	9.8	8269 547	6.6

TABLE 4 (continued)

AIRMEN

	Level 3	el 3	Level 5	1 5	Level 7	1.7	Level 9	1 9	Total	al le
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Authorization	4871		21208		16538		2043		44660	
Year 1: Population Separations	4871 688	14.1	21208 3736	17.6	16538 996	6.0	2043 250	12.2	44660 5670	12.7
Year 2: Population Separations	4871	12.9	18919 3520	18.6	16538 1039	6.3	2043 283	13.9	42371 5471	12.9
Year 3: Population Separations	3381 439	13.0	18319 3037	16.6	16538 1096	9.9	2043	15.4	40281 4887	12.1
Yea r 4: Population Separations	3381 439	13.0	16813 2993	17.8	16538 1113	6.7	2043 350	17.1	38775 4895	12.6
Year 5: Pepulation Separations	3381 439	13.0	15299 2552	16.7	16538 1137	6.9	2043 342	16.7	37261 4379	11.8

exceed those required in the previous year: there will be a promotion failure into level 3. This occurs for the officers in year 4 and so year 5's level 3 population falls short of authorization. It is recommended therefore that the oversimplified treatment of level 1 personnel in the aggregate model be replaced with a more accurate calculation.

The second observation is that in all levels but level 9, the separations each year do not follow any upward or downward trend over the five years and so the year group distributions in these levels are in apparent equilibrium throughout the run. That is, the effects of separations and promotions each year do not change the initial shape of these distributions. For level 9, separations increase each year and so its year group distribution apparently does not stabilize in a five-year run. Since any conclusions to be derived from the model regarding its "average" or "typical" behavior depend on the attainment of some relatively stable patterns over time, it is encouraging to find that the empirically derived input distributions for officer characteristics tend to produce a stable year group population pattern.

The airmen population is not so stable. Promotion failures occur every year in level 5 and, because of the problem with level 1 personnel described above, they begin to occur in level 3 in year 3. Hence, accessions never match separation losses and so the population declines each year. In addition, the year group distributions never reach an equilibrium as with the officers. Separations increase each year in levels 7 and 9 and the levels 3 and 5 distributions are quite different from their initial appearance in year 1. It would be desirable to carefully review not only the grade standards for airmen, but also the other

input distributions, such as the initial year group splits, promotion distributions, retention rates, and promotion windows, for mutual consistency. Since the current values for these inputs came from various historical statistics, collected at different times, they may not be compatible with each other. What is not clear is whether the observed instabilities are inherent in the airman force represented by the statistics or whether the model's manipulation of these data is incorrect.

4.1.4 Results from the Assignment Model

The purpose of the assignment model is to simulate the decision procedures that produce assignment orders that cause personnel to be transferred from one base to another. There are eight types of assignment orders:

- o Separation orders.
- o Promotion orders.
- Assignments of trainees to schools.
- o Assignments of recruits to initial training.
- o Assignments of graduates to bases.
- o Assignments of OVS personnel to CONUS bases on completion of overseas tours.
- o Assignments of CONUS personnel to overseas duty.
- o Reassignments within the CONUS.

Of these, the first four are a direct function of the personnel flows computed by the aggregate model. The remaining four are generated either to transfer personnel who must be transferred (e.g., graduates and those returning from overseas) or to reduce the deviation between base supplies and base authorizations created by previous assignments.

The assignment model produces three sorts of outputs: year-end summary reports, monthly status reports, and the history file. The different outputs highlight different sorts of information about the operation of the model and some observations drawn from each source will now be discussed.

4.1.4.1 Summary Reports

At the end of each year, base supplies are summed up across all bases and displayed in a year-end strength report like that shown in Figure 7. The principal value of this report is to verify that the aggregate flows (e.g., separations, promotions, trainees, and graduates) have been accurately reproduced under the disaggregation by period and base that occurs in the assignment model. Comparing the Figure 7 results to the year-end populations by skill and grade reported by the aggregate model (Figure 4) indicates that, for the most part, the assignment model does accurately track the aggregate model. For all skills, the populations in levels 5, 7, and 9 match almost exactly in both reports. Where there is a discrepancy of one or two, it is likely a result of the roundoff error inherent in disaggregation. The somewhat larger variances at level 3 appear to be due to timing effects in the training and recruiting procedures in the assignment model. On the airman side, 30 persons (0.8 percent of the total accessions for the year) have been brought into the force earlier than expected. On the officer side, 115 persons (13 percent of accessions) are late. It is not known why so many more officers are mistimed than airmen, since the difference in the recruiting and training processes between them is mainly parametric. It would be useful to review these processes distermine the cause of the difference.

The assignment model continues to track the aggregate model, at about the same level of accuracy across levels, for four years of the model run. It can be inferred, therefore, that the temporal disaggregation of separation, promotion, induction, and trainee classification activity implemented in the assignment model program is working properly. In the fifth year, however, level 3 personnel in the year-end strength report drop sharply below the totals in the aggregate model and level 5 personnel drop to a lesser extent. The cause of this was found to be a programming error which prematurely cut off the accession process nine months before the end of the run. What was intended was to discontinue assignment planning at the time since there is no need to generate orders for periods beyond the last period of the run. Hence, it was decided not to include assignment model results from the fifth year in any further analyses of the model.

The other summary report produced by the assignment model gives the number of interbase transfers (Permanent Change of Station moves) which occurred during a year in various categories. Reports for four years of S1 are shown in Figure 8. In the absence of comparable data on the actual force, it has been difficult to establish whether the amount of travel indicated in these results is "normal" or not. However, the breakdowns by category suggest a number of interesting phenomena. For example:

o In year 1, 532 more airmen return from overseas than are assigned to replace them. Since the majority of the shortfall occurs in level 5, it would appear that this is the way the general shortfall in the airmen torce is transmitted to overseas bases. Since ISEM-P does not allow for separation overseas, the only way

shortages can be felt there is by a failure to replace rotatees. In the officer force, where there is no shortfall, the flows into and out of overseas bases are within 3 percent of being balanced.

- o Even though the total airman population continues to decline throughout the run, the number flowing to overseas bases exceeds that returning to CONUS in all years after the first. In fact, there is a continuing trend to increase overseas stocker, for both officers and airmen, throughout the run. The principal contributor to this effect is level 3 but it occurs to some extent at all levels except for airman level 5. It was expected that level 3 outflows to overseas bases would exceed level 3 inflows back to CONUS because level 3 supplies overseas are depleted both by rotations out and promotions out. The reason that other levels exhibit this tendency is not so easily explained. In particular, it is not clear why the level 9 inflows should be higher than level 9 outflows.
- These reports do not record assignments of graduates to openings at training bases, since this does not involve an interbase transfer. Hence, one cannot tell whether the differences between school inflows (at level 1) and school outflows (at level 3) reflect the volume of training base assignments, a discrepancy in the model, the number of trainees enrolled in school at the time of the report, or some combination of these effects.
- The number of intra-CONUS levies is small and, after year 1, relatively constant from year to year. It is somewhat remarkable to find any levies at all for level 3 airmen after year 1 since their relatively high promotion rate into level 5 should result in all being promoted before they will have been at a base long enough to be eligible for transfer under the TOS constraint.

Note that Figure 8 includes data on interbase transfers for a single skill, skill 6, as well as the summaries for airmen and officers. This is because skill 6 was the test skill specified for the run which produced Figure 8. For the most part, the results for this skill are similar to the sums over all skills. But, for a test skill, the program also reports the month-by-month transfer activity upon which the PCS report is

based. Hence, we can examine these monthly breakdowns for skill 6 and perhaps find explanations for some of the phenomena listed above.

4.1.4.2 Monthly Status Reports

If a non-zero test skill is specified in the Model Configuration input, two reports on flows of personnel holding that skill will be produced for each month of the run. One report details the planned flows and projected supplies upon which assignment decisions are based. The other shows the flows that were actually realized and the actual supply levels at each base which resulted. Projection reports for skill 6, year 1, appear in Figure 9 and actual flows appear in Figure 10.*

Three aspects of these results are of interest. First, they should show that the gross flows calculated by the aggregate model are being accurately accounted for as changes to base supplies. Second, it is important for the projections to match closely the actual supplies for a given month in order for assignment planning to properly control the geographic distribution of stocks. Third, the assignment actions taken should reasonably simulate those of the AFMPS.

a. Flows Mandated by the Aggregate Model

Monthly volumes of separations, promotions, trainees, and recruits for each skill are established by the aggregate model (Charts 4 through 7 in Annex 1). The number of separation and promotion orders each month for skill 6 is shown in Figure 11. Entries in the columns labeled

^{*}The projection reports are divided into two parts, each part showing different types of flows. The actual supply reports have only one part which shows all the flows.

"holes" are the promotions into that grade. For grade level 3, the "holes" column gives the number of technical school outflows (i.e., graduations) to occur in each month and hence the number of assignments from schools to bases in level 3 which will be made. To provide these outflows, the model first computes the month when trainees must be entered into the school for a skill, and the month when recruits must be inducted and classified into the skill, by subtracting training times (3.75 months and 1.5 months respectively for skill 6) from the outflow month. The number of trainees entering school, and the number of recruits inducted, for that skill during those months is then set equal to the number of technical school graduations in the skill in the outflow month.

By adding up the appropriate columns for the 12 months of year 1, it can be seen that the temporal disaggregation of flows reported in Figure 11 in fact includes all the activity summed up in the aggregate results report (Figure 4). Comparing the orders of each kind in Figure 11 with the number realized by month (Figure 10) shows that all, and only, those orders in Figure 11 are being executed against base supplies. The number of separations, promotions, and trainee assignments on each report match exactly. Evidently, the reason the yearend base supplies are accurately tracking the year-end aggregate stocks (as shown by the year-end strength reports) is that the assignment model is faithfully carrying out the orders it is being given.

It appears, however, that the assignment model is not faithfully carrying out some of its own orders. Compare, for example, the projections for period 1 with the actual supplies realized for that period.

The number of promotions by base -- UPG IN and UPG OUT -- do not match for any grade, although separations, levies, and rotations do (trainee assignments will be discussed in a moment). The reason for this mismatch is that the program does not save the promotion orders it makes at projection time in an external file, as it does with other assignment orders. Instead, it recomputes the distribution of promotions across bases at flow time. However, the projection calculation uses the projected supplies and the flow calculation uses the actual supplies at each base, and there are a few differences in what is counted as part of each supply at the time of each calculation. Consequently, the projected and actual supplies by base differ and so the promotion distributions differ. But, when promotion distributions differ, supplies are made to differ even further in response. Each month, the differences in supplies are exacerbated by the differences in promotions and so subsequent projected promotions continue to diverge from actual promotions. Thus, projected supplies by base gradually fall out of step with actual supplies throughout the run.

This misprojection of promotions is not intended and certainly does not reflect AFMPS behavior. What should be done, it seems, is to save projected promotions in a PCA file to be applied to actual supplies at flow time in the same way as is done with separation orders.

A somewhat less pervasive anomaly in mandated flows appears in the actual supply results for period 5. Where the aggregate results show a cross-trainee flow of one into grade level 5, the trainee picked by the assignment model holds grade 9. As it happens, the program code not save the distribution of cross-trainees by grade calculated by

the aggregate model. The assignment model simply picks traineds from source skills in skill-code order, and then in grade level order within a skill, to fill cross-training quotas by skill and month. While this reduces core storage requirements, it unfortunately leads to differences between the grades from which cross-trainees are selected in the aggregate model compared to the assignment model. With higher volumes of cross-training, this problem would probably be more widespread.

To correct the situation, without increasing the need for core storage, one must pass the cross-training quotas from one model to the other via a secondary storage file rather than the in-core array currently used. Then the necessary grade distribution associated with each skill/month quota could be saved and subsequently retrieved for making assignments. It is recommended that one of the existing files used to convey aggregate outputs to the assignment model be modified to incorporate this new information.

b. Level 3 Technical School Graduates

All entrants into grade level 3 come from schools. Figures 9 and 10 show that for every month in year 1, the number of projected technical school assignments to bases -- TT IN -- is different from the number actually realized. In later months of the year, the projected supplies in level 3 are seen to be lower than the supplies realized in corresponding months. Neither of these results is anomalous. Rather, they are both a consequence of the different intervals of time between projection and flow and between entrance into school and graduation. Recall that assignments are not made for trainees until they actually near the technical school for their skill. For skill 0, this means that

new level 3 personnel cannot be added to the projection more than three months prior to their graduation date. But projections are made for a period which is nine months prior to the month when flows are realized. Hence, technical school graduates in skill 6 will not show up on the projections for the month in which they graduate. Moreover, since the outflows of personnel caused by separation and promotion do affect the projections, the resulting projected supplies cannot help but be lower than actual supplies.

What is somewhat surprising is that most graduates are not being assigned until after they graduate. In Figures 9 and 10, this is shown by the lack of projected TT IN assignments for all months after the first, while at the same time TT IN assignments are being reported as additions to actual supplies.* Why this is so will be explained in Section 4.1.4.2.c below.

The action taken when graduates are uncommitted at the time they graduate is of some concern. Note that in months 7 and 8, graduates are assigned to CONUS bases even though overseas demand exists for them. This violates the policy that overseas demand should be given preference over CONUS demands in assigning new graduates. Also note that graduates are sometimes assigned to overseas duty even though no demand exists for them there. This violates the policy that overseas bases should not be overmanned even when a skill is in surplus in a given grade.

^{*}This condition is also signalled by exception messages and has been confirmed by an examination of the history file record of school entrants and dispositions.

Both of these effects are caused by an inconsistency in the assignment model. When trainees are assigned before they graduate, the above two policies are enforced (Chart 9). But when they are assigned after graduation, the same allocation procedure used for assigning uncommitted rotatees is used (Chart 13 and Chart 10). This procedure does not compute the worldwide manning levels or base entitlements and it does not give preference to overseas demands. Hence, the above described behavior results. It is believed that AFMPS uses the same policies for assigning graduates regardless of the time of assignment relative to graduation date and so it is recommended that the procedure in the model which allocates uncommitted graduates be made to conform with those policies.

c. Interbase Flows

For the first eight months of the run, the rotation and levy mechanisms operate as expected. The number of rotatees out of overseas bases is correct, levy assignments are planned to cover rotation losses, rotatees are appropriately assigned to CONUS bases, intra-CONUS levies are planned to correct skill imbalances within the CONUS, and the flows actually realized all match the planned assignments.

In the ninth month, however, three curious things begin to happen. First, consider the projection reports. The rotatee pools are reported to contain 11, 15, 12, and 4 members in grade levels 3, 5, 7, and 9 respectively after rotatees for month 9 have been removed from the projected supply. But, after these rotatees have been reassigned to CONUS bases, a substantial fraction of them are not removed from the rotatee pools for grades 3 and 5. Hence, in month 10.

the pools are larger than they should be in these grades. This failure to decrement rotatee pools continues in subsequent months and in months 11 and 12, it also begins to occur in grade 7. Second, the number of assignments planned for grade 3 rotatees in month 10 exceeds even the inflated number of personnel that appear to be available in the pool. This behavior also continues in subsequent months.

The net effect of these two phenomena is to continually increase the projected supplies in grades 3, 5, and 7 at CONUS bases. This result is not correct because the constraints on the sources of such flows are not being respected. The precise cause of the problem is not known. However, the artificial inflation of rotatee pools does account for the failure to assign trainees prior to their graduation date. Given a number of fictitious rotatees, the assignment algorithm will use them to completely fill CONUS base entitlements. Overseas demands will be filled by the normal CONUS-to-overseas levy mechanism. Then, when the technical training pools are considered (Chart 9), there will be no demand for graduates and hence no disposition orders for them will be issued. Thus, trainees will not be assigned until they graduate.

The third curious phenomenon is that the actual flows of rotatees out of overseas bases display an anomaly that is the opposite of the anomaly in projected flows. In the projections, starting with month 9, too many rotatees are assigned to CONUS posts, while in the actual flows, too few leave their overseas posts. For example, the projection report for month 9 shows a total of 29 personnel with overseas tours ending in that month, while the actual supply report shows that only

21 in fact leave. Note also that the fictitious assignments into CONUS bases do not get applied to the actual supplies -- all rotation flows into CONUS bases are matched by rotation flows out of overseas bases.

It seems likely that the cause of this phenomenon is the same as that of the other two. The fact that rotate pools are not being properly decremented probably means that assignment orders are not being properly issued for rotatees. Clearly, the rotatee assignment mechanisms should be investigated and corrected.

It also seems likely that the disparity between projected and actual rotations coming out of overseas bases is the cause of the mismatch between the flows to and from overseas bases displayed in the PCS reports. The flows going to overseas bases are based on the projections and implemented by levy orders, which are properly executed to produce the flows. The flows leaving overseas bases do not match projections and are implemented by rotation orders which are not being properly handled. Any conclusions which might be drawn from the PCS reports should, therefore, be qualified until the problem with rotatee assignments is corrected.

d. Other Skills

Do the above phenomena occur for other skills in year 1? On examining the monthly reports and history file records for several other skills, two similar sorts of results were found. First, the misprojection of promotion distributions across bases appears to be a systematic error, common to all skills. Second, the difference between aggregate and assignment model calculations of cross-trainee grade occurred for other skills than skill 6.

On the other hand, the problems surrounding overseas assignments did not appear for the other skills examined. Only skill 33 exhibited overseas overages comparable to those for skill 6 and many skills are from time to time in short supply at overseas bases. Indeed, since the PCS reports for the sum of transfers over all skills implies a net decrease in overseas population, while the report on skill 6 implies a net increase, any problem that exists cannot be affecting all skills uniformly.

e. Other Years

The assignment model's treatment of skill 6 is approximately the same throughout the run. Consequently, projections and actual supplies diverge from each other further and further each year. By period 48, for example, the differences are quite substantial, as shown in Figure 12. Since the projections used for planning are confounded by fictitious rotatees, the assignments that are realized come to have little relation to the supply imbalances that actually exist.

An important lesson can be drawn from these results for skill 6. Unless a skill happens to be selected as the test skill, the program does not produce any report on actual or projected personnel distributions by base except for the history file. This file, however, is too voluminous to be able to readily detect phenomena of interest and it does not include projection or flow results that would allow the causes of phenomena to be inferred or problems diagnosed. Hence, it is recommended that some report on the geographic distribution of personnel be added to the program. This report should show at least the actual supplies by skill and base at selected times (e.g., yearly). There might also be some provision for flagging those skills which deviate from authorizations or entitlements beyond some limit. When deviations are large, a detailed report by grade might be produced for that skill to help localize the cause. A similar report could be made for projections for purposes of comparison with the actuals.

4.2 Scenario 2: Base Closure

Scenarios 2 through 5 are designed to investigate the effects of perturbing some conditions in the model during the course of a run that were constant over the run in the baseline case. For S2, the central change is the elimination of a base during the second year. This is accomplished by reassigning all of its missions to another base and relocating personnel appropriately as the missions are moved out. After the second year, this base effectively becomes closed since it has neither authorizations nor supplies and hence will not be involved in assignment actions.

4.2.1 Purpose

Closing a base is primarily an exercise for the assignment model. During the specified year, it has to respond to a geographic shift in mission placement by redistributing base supplies to conform to the new base authorizations. The central question is one of dynamics: How well does the model mimic the pattern of reassignments AFMPS makes over time in closing a base?

In a real closure situation, AFMPS tries to control the time aspect of the reassignment pattern fairly carefully. In order to minimize equipment down-time, and thereby maintain readiness, throughout the relocation interval, different categories of personnel are chosen for transfer in a particular preplanned order. Roughly speaking, mission support personnel lead the transfer, direct mission personnel (and equipment) follow, and base support is transferred last. Such sequences are communicated to assignment planning as a sequence

of changes to authorizations at affected bases. Hence, a more specific question to ask of the model is: How closely do the supplies at a base follow the trajectory of changes in authorizations over time? Moreover, one might also wish to determine the effect of these mandated relocations on PCS flows, or on the distribution of shortages, relative to the baseline case, to try to evaluate the efficiency of the process.

Secondarily, this scenario is relevant to the aggregate model. For example, the loss of a base should lead to an overall decrease in the total base support manpower required in the force. Does the model reproduce this decrease accurately? If so, do the stocks of personnel in these skills shift to shortage bases or are they reduced by attrition? Is there any long-term effect on subsequent years? Reasonable answers to these questions would indicate that, for at least a small range, the more aggregate functions in the model approximate their real-world counterparts.

4.2.2 Input Specification

The input data for S1 and S2 are the same except in two respects. First, the mission plan in S2 specifies that certain missions are to be moved from one base to another in year 2. Second, there is a non-null assignment scenario file in S2 to control the details of the relocation.

Changes in mission placement are specified to the model as changes in base outputs. Base 16, Kadena, was chosen as the base to be closed and base 17, Kunsan, was chosen as the base to gain Kadena's missions. To specify that this shirt hould occur in year 2, the Base

Outputs section of the Model Configuration input was changed by adding the following five lines to the S1 version:*

Thus, starting in year 2, base 16 will have no missions and base 17 will have another squadron of F-4, one squadron of C-130, and one squadron of RF-4 added to the three squadrons of F-4 it had in year 1. (Recall that flying support and base support requirements will be adjusted automatically since they are a function of the flying missions assigned to a base.) Missions at all other bases are the same throughout the run. As in S1, authorizations and requirements will be equal (no ceiling constraints).

If the model were run with no further changes than this one, assignment planning would "see" the specified shift in authorizations in the first period of the second year -- period 13. It would, moreover, attempt to reassign supplies in period 13 to satisfy all the new demands at once. To preclude this action, and to approximate the phased assignment plan AFMPS actually uses, an Assignment Scenario file (displayed in Appendix G of Annex 1) was developed for S2.

^{*}Notice that mission 3 is duplicated in the output specification of base 17. Initially, this mission was "moved" by simply incrementing the quantity of squadrons specified in mission 3 from three to four. But it was discovered that a manpower requirement calculation contained an erroneous step which, in effect, reset the quantity parameter to one in computing aviator-family requirements. Thus, it appeared as though this mission was being partially deleted, rather than moved, in subsequent model behavior. Eliminating this error would tend to raise the proportion of aviator-skill personnel in the force since the quantity of squadrons at many bases in greater than one.

The detailed sequence of authorization and supply changes (by period) that the instructions in this file define is shown in Figure 13. What these actions are intended to simulate is as follows:

Periods	Events	Intent
13	a	There is no mechanism in ISEM-P for "locking" a base, i.e., for prohibiting transfers into or out of a base arbitrarily. To reduce uncontrolled flows into base 16, and thus get some of the effects of locking, its authorization is reduced to minimum levels. The hope is that, as personnel leave slots at base 16 (by the two flows permitted at OVS bases, promotion and rotation), little or no demand will be induced to be filled from CONUS sources.
13-15	b,c,d	Phase-in mission support personnel at gaining base. (The program does not actually compute required numbers on a squadron basis but rather uses one-third of the MS total authorized at base 16 in period 12 as an approximation of the MS required for one squadron.) Note that MS authorization is increased at base 17 before it is dispersed at base 16. The implication is that even if supplies equaled end-strength in MS skills, all bases will be short during a relocation in order to provide for the build-up at the gaining base.
15-17	e,g,i	Phase-in direct mission personnel at gaining base. (Again, instead of considering personnel by squadron, the program transfers one-third of those in the DM category as an approximation to one squadron.)
15-17	f,h,l	Phase-in base support personnel at gaining base.
17-18	j,k,m,n	Close out losing base. Only mission and base support staff remain. Disperse them through normal rotation assignment mechanisms.

4.2.3 Results from the Aggregate Model

Closing a base in year 2 should produce a reduction in manpower requirements, authorizations, and inventory in year 2 relative to scenario 1. The following sections describe the distribution of these reductions.

4.2.3.1 Manpower

The reductions in requirements (and, hence, in authorizations) is summarized by skill in Table 5. As expected, direct mission skills are affected only slightly, since the total number of aircraft and hours they are to be flown do not change when base 16's missions are shifted to base 17. The requirement for skill 48 is a function of base population and so declines as other requirements decline. The reduction in munitions maintenance requirements (skills 32 and 73) is apparently a realization of the economies of scale upon which the manpower standard for skill 32 (see Annex 1, Appendix section D.2.1) is based.

Among mission support skills, three types of reductions are obtained. The requirements for skills 6, 11, 12, 13, 4, and 69 in the Comm-Weather family, are a function only of the number of bases. Eliminating base 16 eliminates one base's requirements without increasing requirements at base 17. (Eliminating base 16 has the affect of eliminating one of the 15 flying support missions. A 6.6 percent reduction is equal to a reduction of one-fifteenth.) In contrast, the requirements for skills 7, 8, and 9 do increase at base 17, but not as much as the number eliminated at base 16. So, there is a net reduction in these skills (attributable to the same sort of scale effects as in skill 32). Finally, requirements for

TABLE 5: Reductions in Requirements
Due to Closing Base 16

Airmen

		Redi	iction
Skill	Title	Number	Percent*
Munitions:			
32	Munitions Maintenance	5	0.6
Training:			
48	Training Support	_7	1.7
Total Direct Mi	ission	12	0.1
Comm-Weather:			
4	Intelligence	33	2.1
5	Photomapping	2	2.2
. 6	Weather	87	6.7
10	Telecommunications Operator	32	2.5
11	Radio Operator	3	6.4
12	Weather Equipment Repair	31	6.6
13	Radar Equipment Repair	64	6.6
14	Radio Equipment Repair	7	5.6
16	Comm. & Crypto Repair	10	2.1
26	Wire Comm. Maintenance	15	1.9
Air Operations	:		
7	Air Operations	4	2.0
8	Air Traffic Controller	9	2.0
9	Detection and Deployment	8	2.2
Total Mission S	Support	305	3.7
Base Support:			
15	Computer Systems Repair	5	1.5
34	Vehicle Maintenance	9	1.6
35	Computer Systems Operator	10	1.6
37	Mechanical & Electrical Maintenance	19	1.6
38	Civil Engineering	19	1.6
39	Fire Protection	10	1.6
40	Transportation	26	1.5
41	Food Service	10	1.6
42	Fuel Service	11	1.5
43	Supply	47	1.5
44	Procurement	2	1.4
45	Accounting & Finance	9	1.6
46	Administration	53	1.5
47	Manpower-Personnel	24	1.5
49	Security Police	48	1.5
50	Medical-Dental	39	1.5
Total Base Sup	pport	341	1.5
Total Airmen		658	1.5

^{*}Percent of total population at all bases in the given skill for S1.

TABLE 5 (continued)

Officers

<u>Skill</u>	Title	Redu Number	Percent*
Munitions: 73	Munitions	2	0.7
Training: 84	Training	1	1.3
Total Direct Mi	ssion	3	0.1
Comm-Weather: 69 70 85	Weather Comm-Electronic Systems Intelligence	50 21 4	6.6 4.5 1.2
Air Operations: 67 68	Air Traffic Controller Weapons Control	2 2	3.2 1.8
Total Mission S	upport	79	4.5
Base Support: 71 74 75 77 78 80 81 82 83 86 87 88 89 90 91 Total Base Sup	Computer Maintenance Computer Technology Civil Engineering Transportation Supply Procurement Finance Administration Manpower-Personnel Security Police Biomedical Physician Nurse Dentist Veternarian port	1 5 3 5 4 1 3 6 2 2 7 6 4 1 5 3	4.8 2.1 1.0 2.4 2.2 1.4 5.3 1.2 2.4 1.4 1.2 1.6 1.3 2.1 2.1
Total Officers		135	1.6

^{*}Percent of total population at all bases in the given skill for S1.

and partly a function of base population. Decreasing the number of bases by one eliminates one part of the requirement but the increase in population at base 17 increases the other part. The result is a net reduction.

Base support requirements are a function only of base population. Since the combined populations of bases 16 and 17 is less after closing base 16 -- for the reasons just mentioned -- base support requirements decline accordingly. The amount of reduction is approximately equal to the reduction in non-base support requirements, 1.5 percent.

Since there are no further changes to the mission plan after year 2, the changes in requirements and authorizations shown in Table 5 will remain in effect for the rest of the run.

4.2.3.2 Personnel

S2's aggregate results for year 2 are shown in Figure 14. Looking at the officer results first, the total accessions are 135 less than accessions for S1. This was expected since the total officer authorization declines by that much in S2. The reduced inflows are not confined to the affected skills, however. While skill 69 authorizations are reduced by 50, for example, accessions into skill 69 are reduced by only 7. Actually, the total accession reduction is spread uniformly across all skills. Total accessions are about 22 percent less than in S1 and the accessions in S2 into each skill are about 22 percent less across the board. Because of this dispersion of impact, the end strength reduction can be quite easily accommodated through normal attrition. (However, even if reductions by skill were to be imposed on that skill alone, the

skill.) Hence, no personnel surpluses are created by closing one base in the model.

On the airmen side, S2's effects on accessions are masked by the effects of promotion failure at level 5 and the problem with the treatment of level 1 personnel described earlier. If these effects were not present, it is believed that the model would follow approximately the same behavior for airmen as for officers.

In year 3, officer accessions increase over S1 levels. In examining other scenario results, it has been found that a decrease in authorizations in one year will be followed by an increase in accessions in subsequent years. This rather unexpected behavior will be analyzed in detail in the discussion of scenarios 3 and 4.

4.2.4 Results from the Assignment Model

Because S2 affects different classes of skills in different ways, it is difficult to summarize assignment model results concisely. Instead of a summary, the results for skill 6, a mission support skill, will be presented in full, and partial results for skill 8 will be given for comparison purposes.

4.2.4.1 Skill 6 Assignments

Actual supply reports for skill 6, year 2, are shown in Figure 15. Authorizations and supplies at base 16 for S1 and S2 are shown graphically in Figure 16. The authorization trajectories shown follow the instructions given in Figure 13. The initial drop is due to locking base 16 at minimum levels (event a). Subsequent reductions are caused by events j and m which remove mission support from the base.

Despite the misprojections of promotions and rotatees mentioned earlier, it can be seen that skill 6 supplies follow fairly closely the authorization trajectories at base 16. In each grade level, supplies decline in step with authorization changes. It is suspected that the reason supplies do not match authorizations exactly is because the rotations out of base 16 are not being realized to the extent they should be as computed in assignment planning. Note, for example, that supplies do not fall to zero in levels 3, 5, and 7 after period 18. This confirms the earlier hypothesis that some rotatees are not being removed from the rotation pool when they should be.

Recall that there are no increases in requirements for skill 6 at other bases to absorb losses from base 16. Consequently, all reductions in the supply of skill 6 must result from either separations or crosstraining. In Figure 14, one can see that skill 6 is not in surplus over all grades, hence it cannot be diminished by cross-training. Attrition losses account for a decrease of 47 in total supply so that, by the end of the year, skill 6 is in fact below its authorization end strength.

For part of the year, however, skill 6 is over authorization. At period 18, authorizations at base 16 are completely eliminated and, for the next five periods, supplies exceed authorizations. Where do these surpluses go? As it turns out, there is little difference between the geographic distribution of personnel in S2 and in S1, where there were no surpluses. For the most part, the extra personnel coming cut of base 16 in S2 are reassigned to other bases in the same way as in S1 and so base supplies are larger in S2 but follow the same pattern as in S1. Presumably, this results from the general failure of projections to accurately represent true supplies.

4.2.4.2 Skill 8 Assignments

Skill 8 involves a decrease in base 16 authorizations and an increase at base 17. Figure 17 depicts supplies at base 16 and Figure 18 those at base 17 (these results were taken from the history file). Again, it can be seen that supplies stay approximately in step with authorizations, during both the decrease at base 16 and the increase at base 17. Apparently, enough rotation assignments are being made correctly to allow this behavior to occur.

4.2.4.3 PCS Statistics

PCS reports for S2 are shown in Figure 19. The totals for year 1 match those for S1 almost exactly, as they should since year 1 of both runs is essentially the same. Differences observed in the level 1 and level 3 totals are caused by differences in year 2 training loads in S2. These affect year 1 activity because of the necessary time displacement between graduation (in year 2) and the entrance into schools.

Totals for year 2 are higher for S2 than S1, which also was expected, but the size of the increase exhibited is much larger than expected. The number of PCS moves in S2 is 3,283 more than in S1, including 1,247 more CONUS to OVS travel, 1,309 more OVS to CONUS, 1,027 more OVS to OVS, and 300 less CONUS to CONUS. Only about one-half of this extra volume of travel was expected, according to the following reasons. First, the 1,027 OVS to OVS moves represent the transfer of the direct mission personnel from base 16 to base 17. These transfers occur in addition to the rotation activity for this class, which continues throughout year 2 of S2 at a rate at least equal to that for

Second, some additional travel is required to transfer mission support and base support personnel out of base 16 who would not have left through normal rotation. The population at base 16 stands at about 2,500 at the start of year 2, of which about 1,500 are in the MS and 35 classes. One would expect a flow of about 1,000 rotatees out of this population during a year, on the assumption that two-thirds of the supply at a base with an 18-month tour of duty rotates out each year. Hence, closing base 16 should generate approximately 500 extra trips to remove the remaining 500 persons. Why the flow from OVS to CONUS should increase by 1,300 rather than 500 is not known.

Third, the new MS and BS authorizations at base 17 must be filled by supplies from CONUS sources. Additional authorizations at 17 number about 695 (= the initial base 16 population - DM personnel - the overall MS and BS authorization reduction = 2,500 - 1,027 - 778). Why the extra flow from CONUS to OVS is closer to 1,200 than to 700 is not known.

PCS results for years 3 and 4 are also hard to account for. In year 3, the total number of PCS moves is about 500 more for S2 than for S1. Some increase was expected because base 17 has a shorter tour length (12 months) than base 16 (18 months). In year 4, however, PCS moves for S2 are actually slightly less than for S1. There is no consistent pattern in the number of moves by grade or by type of move. It is not clear how to interpret such differences in results.

What might be concluded from the above is that the program does not display enough information to be able to identify the phenomena producing the PCS results. But, exactly what should be displayed is

follow a pattern that differs from the results summed over all skills. Results might be displayed for all skills individually, but that would make for a very large report. The program currently permits the collection and display of results for any number of skill groups and so experimentation with different groups might yield a collection that helps in analysis. Other disaggregations might be tried, such as displaying the transfers affecting each base, or the totals for each period. Third, there may be some measures used by AFMPS to monitor real PCS activity which would be of benefit in interpreting the model. If PCS data are of substantial importance in AFMPS decision-making, it is recommended that all the above approaches be investigated so that results from the model can be properly related to reality and so that the causal relationship between decisions and results can be clearly depicted.

4.3 Scenario 3: Reductions in Year-End Strength

4.3.1 Purpose

This scenario simulates a reduction in authorizations for both airmen and officers by a fixed percentage each year starting in year 2 of the run. In terms of specific skills, the reductions are distributed across the base support and mission support categories while maintaining direct mission skills at the full strength specified by manpower requirements. Questions to be addressed by this run include:

- o How are the effects of such a reduction distributed across the inventory?
- o In what skills do surpluses develop (e.g., because separations are insufficient in a skill to bring it down to a reduced authorization in a year's time)?
- o What changes occur in accession rates?
- o What changes occur in training loads?

Given the magnitude of these changes, one could infer the likely changes in more global performance measures. For example, inputting reduced personnel supplies by skill into appropriate manpower production functions could yield the flying hours or sortic generation rates to be expected in such circumstances. Or, one could determine the responsiveness of the training system to reductions in the demand for graduates.

4.3.2 Input Specification

S3 input is the same as S1 except for the run control line in the Model Configuration file. This line was changed to:

91 5 -.02 -.02 1.0 1.0

The third and fourth numbers specify that authorized end strength is to be reduced by 2 percent each year after the first for both airmen and officers. Default values for the minimum manning fractions are used. These specify that the authorization for direct mission skills must not go below 100 percent of requirements, mission support must not go below 84 percent, and base support must not go below 57 percent. (Minimum manning fractions had no effect on S1 because ceilings and requirements were set equal to each other.) No changes were made in any decision procedure, so that, for example, there were no special reduction in force or modification to promotion calculations.

4.3.3 Results

The first year is the same for S1 and S3 so the results of interest commence with year 2.

4.3.3.1 Year 2

The authorizations by skill and grade for S3 are shown in Figure 20. As expected, total authorizations are 2 percent less than requirements. Direct mission skill authorizations are unaffected while mission support drops about 2 percent and base support drops 3 percent for airmen and 4 percent for officers.

Promotion plans for airmen and officers are shown in Figure 21. Since retentions are the same but authorizations are reduced, the number of vacancies by grade is reduced. As a result, the upgrade demands, promotion rates, and accessions are reduced. The 2 percent reduction leads to a 27 percent reduction in officer vacancies and so a 27 percent reduction in officer accessions. For airmen, the reduction in accessions is only about 12 percent but instead of reducing accession

by that much, the lowering of authorizations works to reduce the size of the promotion deficit at level 5. Since the officer calculations do not suffer from this problem, attention will be focused on the officer inventory for the rest of this section.

Looking at the distribution of level 1 officer inflows across skills, shown in Figure 22, it is interesting that accessions are reduced in all skills by a more or less constant 27 percent. Thus, training loads are not reduced in just those skills involved in the authorization reduction — the mission and base support skills — but in all skills. The cause of this appears to be the insulation of promotions from upgrade demands by skill which is induced by promoting by an equal rate across all skills. Accessions are made to fill level 3 demands in a skill and these are not directly related to higher level demands within that skill.

The distribution of reduction in personnel by grade follows the distribution of reductions in authorizations over all skills, but not in any individual skill. The fact that reductions by grade are proportional to the authorization by grade is a consequence of the simple, linear procedure for reconciling requirements to ceiling constraints. The distribution of reductions by grade within a skill is a function of the relative number in each grade in that skill.

Surpluses do not develop in the S3 officer inventory in year 2 that were not there in S1. That is, every skill that was in surplus in S1 is in surplus in S3 and every skill that was in deficit in S1 is in deficit in S3. However, surpluses tended to shrink and deficits to grow among mission skills in S3 while the opposite occurs for mission and base support skills. The magnitudes of these surpluses

and deficits are such that, if sufficient lateral flows were implemented for officer skills, the imbalances could be eliminated and the 2 percent ceiling reduction absorbed without surpluses in any skill. A 2 percent reduction is well below the 6 percent overall officer separation rate and also below the separation rates for each grade. Therefore, it could be absorbed without surplus in any grade. Whatever surpluses develop would depend on lateral flow constraints. Hence, surpluses should follow approximately the same pattern in S3 as in S1.

4.3.3.2 Year 3

Year 3 of S3 is quite surprising. It was expected that the reductions in vacancies, upgrade demands, promotion rates, and accessions would continue throughout the run since authorized end strength continues to decrease each year. But in year 3, total vacancies in the officer inventory actually increase and so accessions go up both with respect to accessions in year 2 of S3 and with respect to year 3 of S1.

The authorizations for year 3 are shown in Figure 23. Airmen base support authorizations are now down to about 93 percent of requirements and officer base support is about 92 percent of requirements. Overall end strength ceilings are down 4 percent, as the scenario requires. In spite of these reductions, the S3 promotion plan, displayed in Figure 24, shows that accessions must increase to meet authorizations. The promotion plan from year 3 of S1 is also shown in Figure 24 for comparison. Note that promotion rates in S3 and still below those in S1, as was true for year 2.

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From Figure 24, the increase in accessions is clearly a result of the increase in level 3 vacancies in S3 over S1. The reason for more vacancies appears to be the change in the incumbency distribution which was produced as an unanticipated consequence of changing the authorizations in year 2. Year group populations for officers in S3 year 2 are shown in Figure 25. Comparing this chart to its S1 counterpart in Figure 6, one can see that the populations of year groups near the phase point for each grade tend to be higher in S3 than in S1. Correspondingly, the populations in adjacent higher grades are lower in S3 than in S1. Evidently, with fewer promotions being made in S3, personnel are being left behind at the lower grades. Thus, more of them enter year groups having high separation rates. Note, for example, the bulge of level 3, year group 5 in Figure 25 and the resulting large number of separations from that grade level. Similar, though less pronounced, bulges raise the number of separations in S3, 36 percent above the number in S1, even though the total size of the inventory is less in S3 than in S1. As it happens, the increase in separations is more than the reduction in authorizations and so increased accessions are called for.*

The number of separations in years 4 and 5 of S3 continues to exceed separations in those years for S1; data are shown in Figure 26. However, it appears that the size of the increase does not offset the continuing reductions in authorizations and so accessions should begin

^{*}Separations also increase on the airmen side in S3. However, the promotion failures into levels 3 and 5 wash out the effect on accessions.

to drop. Unfortunately, the problem with the treatment of level 1 personnel discussed earlier clouds the analysis. In year 3 of S3, not enough personnel are promoted to level 3 to meet its upgrade demands and not enough are accessed into level 1. Hence, it is difficult to determine what should be happening in level 3 for years 4 and 5. Similarly, the distribution of accessions over skills in year 3 is not consistent with the promotion plan and so training loads cannot be accurately compared with previous years or with S1 (see Figure 27). Since the co-occurrence of an increase in accessions with a reduction in authorizations is so counter-intuitive, it would be most useful to reanalyze the scenario after suitable changes in the level 1 placement procedures.

4.4 Scenario 4: Reduced Flying Hours

4.4.1 Purpose

The purpose of S4 was to investigate the model's response to a change in workload parameters during the course of a run. One such parameter is the aircraft utilization rate, which is specified in flying hours per month. For S4, the utilization rate for all B-52 aircraft (mission 1) were permanently reduced by 20 percent beginning in year 2.

The most interesting effects of this sort of change are to be expected in the aggregate model results. First, a change in workload should produce a change in manpower requirements. Spaces for skills directly involved in mission 1, such as B-52 pilots, navigators, aerial gunners, and various maintenance skills, should be reduced by a reduction in flying hours. Some mission support requirements should also be reduced. For example, the need for air operations skills should decrease since fewer flying hours can be translated into fewer flights. Base support requirements, too, should decline as the other requirements shrink.

Second, the change in requirements will produce a change in authorizations and so there should be changes in personnel stocks (relative to S1). All the personnel planning questions from S3 (listed in 4.3.1) are therefore relevant to S4. One might expect both stocks and flows to be different in S4 than in S3 because the proportion of authorization reductions in direct mission skills should be much higher in S4 than S3.

4.4.2 Input Specifications

One B-52 squadron is assigned to each of bases 7, 8, and 9. To change the utilization rate starting in year 2, the S1 Base Outputs specification must be augmented as follows to serve as input to S4:

2													
7	1	1	36	2	1	30	9	0	0	12	0	0	
S	1	1	36	2	1	30	9	0	0	12	0	0	
9	1	1	36	2	1	30	9	0	0	12	0	0	0
0									•				

These lines follow the year 0 output specifications in the Model Configuration file. Their effect is to reduce B-52 squadron utilization from 45 hours/aircraft/month to 36 hours/aircraft/month.

4.4.3 Results

As with the previous scenarios, the deviation from the baseline is scheduled to occur in year 2 and so we begin the analysis with that year.

4.4.3.1 Manpower

Manpower requirements and authorizations calculated for year 2 are shown in Figure 28. Unlike S3, these values will remain the same for the rest of the run. The reductions in requirements (and authorizations) resulting from the reduction in flying hours are summarized in Table 6. Despite the anomalies in requirements discussed earlier, the figures in Table 6 show that many of the manning equations described in Annex 1, Appendix D, have been correctly implemented in the program. For example:

- Aviator and maintenance spaces are directly proportional to flying hours. In those skills which are unique to mission 1 -- skills 1, 17, 18, 57, 59, and 60 -- the 20 percent reduction in flying hours is translated into a 20 percent reduction in spaces (with a little roundoff error). All aviator and maintenance skills required for mission 1 are affected except for skill 20, but the requirement in this skill is too small to be affected by a 20 percent workload change.
- o Trainer spaces are proportional to the expected number of trainees. With fewer pilots, navigators, and electronic weapons offices in the force, expected trainees are reduced and so the number of trainer spaces decreases.

TABLE 6: Reductions in Requirements Due to 20 Percent Reduction in B-52 Flying Hours

	Airmen			
a			ction	
Skill	Title	Number	Percent	
Aviator:				
1	Aerial Gunner	15	21.1	
51	Aircrew Protection	6	5.0	
Maintenanc	e:			
17	Bomb & Navigation Systems Mechanic	9	19.1	
18	FCS Mechanic	30	21.9	
21	Integrated Avionics Mechanic	12	1.9	
22	Avionics-Guidance Mechanic	18	1.2	
27	Aircraft Acc. Repair	86	2.7	
29	Jet Aircraft Mechanic	69	2.8	
30	Jet Engine Mechanic	21	3.2	
36	Metalworking	18	2.6	
Training:				
23	Instrument Trainer	1	5.9	
2,4	Defensive System Trainer	1	5.0	
25	Navigation Trainer	1	5.3	
48	Training Support	9	2.2	
Total Direc	t Mission	296	2.1	
		2,0	2.1	
Comm-Weat	her:			
4	Intelligence	23	1.5	
10	Telecommunications Operator	20	1.5	
16	Comm. & Crypto Repart	9	1.9	
26	Wire Comm. Maintenance	10	1.2	
Air Operat	ions:			
7	Air Operations	3	1.5	
8	Air Traffic Controller	6	1.3	
9	Detection & Deployment	3	0.8	
Total Missi	on Support	74	0.9	
10141 110331	on Support	13	0.7	
Base Suppo	ort:			Estimate
15	Computer Systems Repair	7	2.0	6
34	Vehicle Maintenance	10	1.8	9
35	Computer Systems Operator	10	1.6	10
37	Mech. & Elec. Maintenance	20	1.6	19
38	Civil Engineering	20	1.6	19
39	Fire Protection	10	1.6	10
40	Transportation	32	1.8	30
41 42	Food Service	10	1.6	10
43	Fuel Service	10	1.3	13
44	Supply Procurement	54 4	1.7 2.8	53
45	Accounting & Finance	10	1.8	2 9
46	Administration	64	1.8	60
47	Mannower-Personnel	29	1.8	27
49	Security Police	59	1.8	5∘
50	Mcdical-Dental	45	1.7	41
Total Base	Suprest	394	1.7	
*0.01 D03C	oup, .	J74	1. /	378
Total Airme	en en	764	1.7	
		- -		

TABLE 6 (continued)

		Officers	نہے 12	ction
Skill	Title		Number	Percent
Aviator:	B-52 Pilot		33	20.8
59 66	B-52 Navigator B-52 EWO		30 15	21.7 21.7
Maintenance	: :			
72	Avionics Maintenance		27	2.6
Total Direct	t Mission		105	3.1
Comm-Weath	ner:			
70	Comm-Electronics		9	1.9
85	Intelligence		5	1.5
Air Operati	ons: Air Traffic Controller		2	4 0
67			3	4.8
Total Missic	on Support		17	1.0
Base Suppo	rt:			
74	Computer Technology		5	2.1
75	Civil Engineering		ġ.	3.1
77	Transportation		7	5.7
78	Supply		1 8	0.4 2.8
80	Procurement			0.4
82 83	Administration		1 5 2 3 6	1.4
86	Manpower-Personnel		2	1.4
87	Security Police Biomedical		2	1.8
88	Physician		3	1.3
89	Nurse		5	1.1
90	Dentist		4	2.1
Total Base	Support		 56	1.7
	• •			_
Total Office	ers		178	2.1

- o It was expected that air operations spaces would decrease but not communications-weather. However, the only skills affected in the communications-weather family are those which are also used in base support. Hence, the decrease in their numbers is most likely a result of the overall reduction in base support requirements.
- Base support requirements decrease because base populations decrease. There will be a decrease not only at bases 7, 8, and 9, but also at the training bases, since fewer trainees and fewer instructors will be present. As explained in Annex 1, Appendix D, base support requirements are computed as a fraction of the total requirements other than base support at each base. Therefore, the reduction in base support should be proportional to the reduction in other requirements. The total reductions in other requirements shown in Table 6 correspond to a fractional reduction of 0.0168389. Multiplying this number times the S1 requirement in each airman base support skill yields the estimated reduction shown in column labeled "Estimate." The fact that these figures agree fairly well with the reductions computed by the model suggests that the base support computations are being performed correctly. Similar estimat- turn out to be less accurate for officer skills but this is probably a result of the roundoff error inherent in computations with small integers.

In summary, the changes in requirements all seem to go in the right direction and are of approximately the right magnitude. More detailed validation would require comparison to data from AFMPS on the actual reductions made in a similar situation.

4.4.3.2 Year 2 Personnel

The effect of S4's reduction in authorizations on personnel stocks and flows is remarkably similar to the behavior observed in year 2 of S3. First, compare the promotion plans for S4, shown in Figure 29, with those from S1 in Figure 21. As it happens, a 20 percent reduction in B-52 flying hours produces almost a 2 percent reduction in total airmen authorizations and just over a 2 percent reduction in total officer authorizations. It is apparent that the particular set of skills

in which these reductions are made does not affect the promotion plan very much. Vacancies, upgrade demands, promotion rates, and accessions are all reduced relative to S1 (Figure 3) to about the same extent in S4 as in S3. A 2.1 percent reduction in officer authorizations leads to a 29 percent reduction in vacancies and accessions in S4, where a 2 percent authorization reduction leads to a 27 percent decrease in S3. A 1.7 percent reduction in airmen authorizations leads to a 10 percent vacancy reduction in S4, where a 2 percent authorization reduction leads to a 12 percent decrease in S3.

Second, compare the aggregate results for year 2 of S4, shown in Figure 30. with those from S3 in Figure 22. On the officer side, the distribution of flows by skill and grade and the resulting distribution of stocks at year's end are almost exactly the same. Note, in particular, skills 57, 59, and 66, which are the officer skills most heavily reduced in S4. There is no difference in the personnel distribution in spite of the considerable difference in authorizations. Apparently, without lateral flows and without allowing accessions by skill to differ from level 3 upgrade demands, the equal promotion opportunity algorithm causes the model to be completely insensitive to authorization changes by skill. Only the gross magnitude of the changes has an effect.

It might be argued that the rather simplistic retention calculations implemented in the model also have something to do with its sensitivity to skill-specific changes. However, the fact that the officer inventory by grade meets year-end authorizations by grade suggests that what is needed are flows from one skill to another, and for a more responsive distribution of accessions acress skills.

Some evidence supporting this view is present in the airmen results. The airmen skills most heavily reduced in S4 are 1, 17, 18, 23, 24, 25, and 51. These are precisely the skills the model finds to be enough over authorization to qualify as sources of cross-trainees. After cross-training flows, the year-end stocks in these skills match their year-end authorizations much more closely than do the year-end stocks of officers in skills 57, 59, and 66. As was pointed out earlier, some form of lateral flow, whether it represents cross-training, entry and exit from the rated supplement, or simply a reallocation of personnel from one skill to another, seems to be quite critical in reducing skill imbalances generated by the promotion procedure.

4.4.3.3 Year 3 Personnel

The increase in vacancies over year 3 of S1, found to occur in S3, also occurs in S4, as shown in the promotion plans in Figure 31. The reason is the same: reducing authorizations in year 2 leads to reduced promotions which, in turn, leaves personnel in lower grades who age into year groups with high separation rates. In S4, this effect is even more pronounced than in S3 since there is no continuing reductions in authorizations as there was in S3. From the year group population reports, shown in Figure 32, it may be seen that separations are about the same in S3 and S4 -- both considerably above S1. With no authorization reduction in S4, officer accessions are 35 percent above the S1 totals, the same as the increase in separations.

Unlike S3, separations in years 4 and 5 of S4 do not exceed separations in those years in S1 (Figure 32). Apparently, without a continuing drop in authorizations, the year group distribution reaches a

new stable state approximately like that in S1. Hence, overall behavior tends to return to the pattern found in S1. However, the problems mentioned in the discussion of S3 also arise in corresponding years of S4 and so more detailed analysis of S4 will not be undertaken.

4.5 Scenario 5: Retention Reduction

4.5.1 Purpose

Scenario 5 was intended to assess the effects of retention estimation errors on personnel planning. Recall that the aggregate model makes plans for promotions, training, and recruitment based on expected separations rather than actual ones. In previous scenarios, actual separations were equated to expected in order not to confound the effects of misestimation with the effects produced by the other perturbations under study. In the real world, however, actual losses are likely to deviate from expectations and so a provision was made in the program to introduce unexpected losses in order to determine what effect such variances would have.

Based on the structure of the aggregate model, it was expected that variances would not affect planning for the year in which they occurred but would produce differences in cross-training flows in that year.

Then, in the following years, the planning procedure should notice the overages or shortages in the inventory caused by the original misestimation and generate a plan to recover from them.

4.5.2 Input Specification

The input to S5 specifies four skills for which actual separations are to deviate from expected. Three airman skills -- 7, 8, and 51 -- and one officer skill -- 52 -- were chosen and the deviation was set at 50 percent decrease in retention in all grades. This decrease is specified to occur in year 2 of the run by the following input data:

The skills, deviation, and year were chosen arbitrarily. Authorizations will be the same as in S1 since no factors affecting manpower or ceiling constraints are changed in S5.

4.5.3 Results

Reducing retentions by a factor of 60 percent yields the following reductions in personnel in the four designated skills in year 2:

Skill	Entering Population	Expected Separations	Actual Separations	Differences
7	196	19	90	71
8	443	51	208	157
51	118	14	58	44
52	356	24	255	131

Thus, total airmen separations will be 272 larger than expected (about 5 percent) and officer separations will be 131 larger (about 21 percent).

These variances did not produce the predicted effects on planning. Vacancies, accessions, and promotion rates increased in year 2, relative to the baseline, rather than remaining the same. On examination, it was found that two lines in the planning program had been transposed and that this caused the model to base its promotion plans on actual separations rather than expected. Thus, S5 took on a somewhat different character than was initially intended. Instead of investigating estimation errors, it was decided to examine the effects of large, but anticipated, dips in retention rates.

4.5.3.1 Overall Effects

For the most part, the principal effects of retention reduction seem to be local to the year in which the reductions occur. Consider the changes in inventory by grade shown in Table 7. For the airmen, the only substantial differences in separations, promotion rates, and upgrade demands occurs in year 2. The only effect that continues from one year to the next is an increased number of vacancies at level 5 in S5 relative to S1 starting in year 3. This is due, of course, to the exacerbation of the promotion failure by the increased loss of personnel in year 2. The difference in vacancies decreases in succeeding years but does not entirely vanish by year 5. It appears that the slightly lower population in S5 leads to fewer separations in successive years and so, with constant recruiting inflows, the stock at level 5 slowly rebuilds.

On the officer side, accessions in year 2 rise to meet the increase in separations. In succeeding years, an effect similar to that observed in S3 and S4, but opposite in sign, is found. After an increase in accessions and promotions, as occurs in year 2 of S5, there is a decrease in these quantities in subsequent years because personnel are drawn out of grade/year groups with high separation rates. Note the consistently lower number of separations in grades 5 through 9 in years 3, 4, and 5. The effect is relatively small but it is believed that it is proportional to the initial small change in separations in year 2. If more personnel separated, the impact on later years would be greater.

change in Inventory by Grade for Scenario 5 versus Scenario 1 TABLE 7:

Airmen

			Scenario 1	rio 1					Scenario	rio 5		
	[7]	L3	1.5	1.7	1.9	Total	[7]	L3	LS	1.7	L9	Total
Voir 1					_							
Sensorations	,	889	3,736	966	250	5,670	ı	688	3,736	966	250	5,670
Properties Rate	ı	1,0	0.071	0.016	0.0	,	,	1.0	0.071	0.016	0.0	ı
Vacancing	1.381	688	3.736	966	250	9,051	3,381	688	3,736	966	250	9,051
Upgrade Demand	3,381	3,381	2,693	1,246	250	. 1	3,381	3,381	2,693	1,246	250	•
, ,			-		-							
ו כשור גי:		06/	000	1 030	202	5 471	,	664	3 6.04	1,170	305	5.743
Separations		629	3,320	4,039	607	1,2,10						?
Promotion Rate	,	1.0	0.085	0.018	0.0	'	1	7.0	0.1376	610.0		
Vacancies	4.871	629	5,809	1,039	283	12,631	4,871	664	5,893	1,170	305	12,903
Upgrade Demand	4,871	4,871	4,242	1,322	283	i	4,871	4,871	4,207	1,475	305	1
			•									
Year 3:				, , ,				730	,	1 007	317	1 841
Separations	ı	439	3,037	0,0,1	515	4,857	ı	424	5004	1,001		101
Promotion Rates	1	1.0	0.092	0.020	0.0	,	ı	7.0	0.093	0.020	0.0	
Vacancies	3,381	1,929	5,926	1,096	315	12,647	3,381	1,924	6,165	1,087	317	12.879
Upgrade Demand	3,381	3,381	2,942	1,411	315	ı	3,381	3,381	2,942	1,404	317	1
					-							
Year 4:		•		:		700		130	ر 20 د	000	247	4 846
Separations	,	439	2,493	1,113	350	4,875		404	704.7	1,070	5	OLO I
Promotion Rates	1	1.0	0.106	0.023	0.0	ŀ	ł	0.1	0.106	0.022	0.0	
Vacancies	3,381	1,929	7,388	1,113	350	14,161	3,381	1,929	7,589	1,098	347	14,344
Prograde Demand	3,381	3,381	2,942	1,463	350	1	3,381	3,381	2,942	1,445	347	•
Year 5:								430		1,30	242	777
Separations	ı	439	2,552	1,137	342	4,470		457	6,533	1,130	240	F
Promotion Rates	ı	0.1	0.116	0.022	0.0	ı	,	1.0	0.11	0.022	0.0	
Vacancies	3,381	1,929	8,461	1,137	342	15,250	3,381	1,929	8.625	1,130	342	15,407
Upgrade Demand	3,381	3,381	2,942	1,479	342	ı	3,381	3,381	2,942	1,472	342	ı
							-					

TABLE 7 (continued)

Officers

522 '- 1.04' 555 . 1,332 879 -1,758 755 _ 1,510 , 53 Total 0.0 117 117 56 0.0 56 56 98 0.0 98 98 158 0.0 138 139 82 0.0 82 82 6,1 328 0.052 328 384 285 0.092 285 383 304 0.137 304 421 244 0.182 244 382 294 0.074 294 376 Scenario 1 105 0.279 105 488 65 0.240 65 447 303 0.286 303 687 175 0.289 175 551 127 0.289 127 548 192 0.518 192 879 204 0.416 204 755 108 0.342 219 666 34 0.327 34 522 85 0.380 85 633 13 879 879 755 755 525 522 633 633 999 999 3 Total .1,348 547 -1,303 1,758 624 542 _ 1,084 879 674 0.0 0.1 119 119 56 0.0 56 56 0.0 73 73 98 0.0 98 98 0.0 141 141 F-9 278 0.065 278 351 290 290 388 328 0.052 328 384 307 0.137 307 426 246 0.183 246 387 Scenario 1 L5 L7 303 0.386 303 687 69 0.237 69 456 115 0.265 115 466 139 0.286 139 565 121 0.275 121 509 192 0.518 192 879 158 0.340 158 624 33 0.341 33 542 109 0.398 109 674 91 0.350 223 624 <u> 13</u> 624 542 -624 624 879 879 --674 674 Upgrade Demand Upgrade Demand Upgrade Demand Upgrade Demand Upgrade Demand Separations Promotion Rate Separations Promotion Rate Separations Prometion Rate Separations Promotion Rate Promotion Rate Separations Vacancies Vacancies Vacancies Vacancies Vacancies Year 3: Year 4: Year 5: Year 2:

4.5.3.2 Effects of Designated Skills

The only appreciable effect on the distribution of personnel by skill occurs in the four skills in which separations are higher in year 2. The results for all of them are about the same and are exemplified in the aggregate flow patterns for skill 8 displayed in Figure 34. In year 2, there is no additional flow into skill 8 stocks and so they bear all of the separation loss. The general lack of skills in surplus prevents cross-training personnel into these skills to make it up. In years after year 2, the disproportionately low populations in these skills leads to disproportionately low separations. But, about the same number of accessions are made into these skills and so they slowly increase in population. Thus, the stocks in the designated skills mirror in microcosm the effect observed in the force as a whole.

In connection with S4, it was concluded that the aggregate model is not very sensitive to skill-specific surpluses. Here it is seen that it is not sensitive to skill-specific deficits either. Evidently, if more sensitivity is to be obtained, the factors inhibiting cross-training and those controlling differential accessions by skill must be reviewed and changed as necessary.

APPENDIX: FIGURES

FIGURE 1: S1 Requirements and Authorizations

• • • SCENARIO SI • "STEADY STATE" • •

YEAR 11 HANPOWER REQUIREMENTS (A) VS AUTHORIZATION (B)

CATEGORY	25 -	16,51		u	-	•	100	•	TOTAL	AL	PCT OF
	LEVE	יי	ור א <u>ה</u>	n .		· ·	3	• ((X)	TOTAL B
SKL	4-	B	V	1-8-1	V	-B	_	2	1 · ·		
	•	A C 1003	22	2 (1	m	0 0	12	2 (10	7.1	0	r •
•		1001761	21			0116		2(10		0	0.0
.	4 :						2.8	28(100)	274	000	5. 0
.	<u>-</u>	100111							3	7(10	•
17	•	(001)9	67) 	3 (7 1 10	
9	•	61100)	73	3:1		9 (10	0	•	\		•
•	•	100116	Q+			7110	æ	2	3 °	0118	•
	~	711001	132	2 ()		5 (10	4	2	228	=	•
27	75	75(100)	338	38(1	181	0	5 8	28(100)	~	22(10	S (
22			708	3		3(10	58	0 :			0
	· -	1001)1	_	7(1		9(10	0	01000	. 17		•
7 6	-	11001	.	=	-	0	0	•	20		•
25	- ~		.		77	2(10	0	:	-	19:10	0
22	200		1730	30(1	87	1087(10	76	4 (10	0	02 2 10	23.1
28		40.0	162	2 .	122	122(100)	23	23(100)	331	131	2.4
29	171		1192	9211	•	99110	167	7110	N	29(10	9.7
30	ď		5 F C	441	æ	46110	0	:	#	48110	•
		Ξ	21	2111	64	25110	1	0110	8	89(10	••
12	-	119(100)	7 7	4161	S	54(10	33	0 :	Ŧ	47110	
	. 0	195/1001	1151		a	0118	96	9 (10	1952	52(10	1 - 1
- 1		72(100)	996	199	*	41110	6	=	0	===	1.5
	. J	5411001	4	4311	287	87110	CC	=======================================	-	17:10	3.0
	- c	15(100)	. R	56 (100)	*	44(10	, ,	=======================================	120	=======================================	
•											
TOTAL	1238	1238(100)	6952	6952(100)	4987	4987(100)	662	995(100)	13639	13839(100)	0.00

FIGURE 1 (continued)

CATEGO	CATEGORY 2 SKILLSI	K16651							1		30 400
	LEVEL		LEVE	9	LEVEL	7	LEVEL	۰ د	TOTAL		
SKI		STATE CAL	4 4 4 4	1818	V	R (X)	4	8	4	8 (%)	TOTAL 8
1	2.5	355(100)	4	541(100)	20.00	559(100)	9	1001)56	1550	1550(100)	1 6 1
- u			28	_	3	_	7	2(100)	93	93(100)	7 • 7
•		151(100)	4 8 3	483(100)	573	573(100)	6	90(100)	1297	1297(1001	15.9
-		2311001	67		56	_	17	17(100)	202	202(100)	2 • 5
. «	7	64(100)	151	٠ -	202	202(100)	3	31(100)	448	448(1001	S • S
•	~	31(100)	S		:	-	20	20(100)	357	357(100)	7
	. ~	67(100)	6.38	638(100)	553	_	+	411100)	1299	1299(100)	0.9
2 =	; c		9 -		31		0	10000	47	47(100)	9.0
. ~	י ב	3011001	212	212(100)	212	212(100)	5	15(100)	494	46911001	5. 80
:	76	76(100)	439		394		9	1001109	696	1001)696	1.9
		19(100)	5.9		6.7	-	0	(• • •) 0	124	124(100)	s -
	8	38(100)	217		200		21	2111001	476	476(100)	5.0
26	77	77(1001	=	411(100)	290		25	2511001	. 803	803(100)	6.6
)											1 1
TOTAL	444		3417	3417(100)	.3353	3353(100)	417	417(100)	8134	8134(100)	0.001

FIGURE 1 (continued)

CATEGORY	IRY 3 SK	(1665)	7	ú							
	1	•	12.15.			EVEL 7	LEVEL	-	TOTAL	' A L	PCT OF
٠ . ١ .		_		(X)	V	B (X)	4	B (X)	4	8 (%)	TOTAL B
<u>.</u>	100	_	148	148(100)	167	9	21	21(100)	344	344(100)	5.
77	59	(001)59	237	237(100)		227(1	7	24(100)	553	3110	2.4
3 .	- - -	51(100)	175	175(10	332	332(1	N.	2 2 2	613	3110	2.7
37	159	159(100)	900	011009		425	, ,	; ;			
38	184	184(100)	104	011104	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			- :	0271		r :
36			- (011100			•	_	1220	=	2.4
	71.	- :	0.5	240110	~	171(1	12	Ξ	615	5(10	2.7
) <i>-</i>			996	966(10	3	544(1	32	Ξ	1756	1756(100)	7.7
- (_ 	322	322(226(1	-	-	613	3(10	2.7
7 :	99	99	417	417(10	237	237(100)	52	25(100)	745	745 (100)	3.3
7 : F :	345	345(100)	1361	136		132011		91	3154	4 1 10	6.61
r:	7	=	7	44010		93(1	'n	5 (3	144(10	9.0
ň ·	. 73	73(100)	223	22	219	219(1	31	=	246	0119	
9	430	430(100)	1568	1568(10	-	1426110			35.44		
47	130	130(100)	00	007	, ,			7 7 7	9 .	1000	
0.7	7 7 3	• •				01)///	-	(0011017	1616	0 9	7:1
	0 1	Ξ.	70.7	2042(10	726	7261100)	9	1001)59	3299	3299(100)	74.5
		34711001	1396	1396(100)	834	834(100)	106	106(100)	2683	2683(100)	11.8
	•	*					, ,				
TOTAL	2686	2686(100)	10839	10839(100)	8118	819811001	464	964(100)	22687	2268711001	100.0
GRAND		•					•				
TOTAL	1294	4871(100)	21208	21208(100)	16538	16538(100)	2043	2043(100)	44660	1001)09944 09944	100.0

4371 4871(100; 21208 21208(100; 16538 16538(100; 2043 2043(100; 44660 44660(100; 100.0

FIGURE 1 (continued)

LEVEL 3 LEVEL 5 LEVEL 5 126 1001 126 126(100) 38 66 66(100) 64 64(100) 18 53 53(100) 53 53(100) 74 24 24(100) 23 23(100) 26 44 44(100) 40 40(100) 15 45 45(100) 42 32 32(100) 46 45(100) 15 45 45(100) 28 28(100) 28 34 34(100) 34 34(100) 10 26 26(100) 28 28(100) 29 37 37(100) 36 36(100) 26 38 385(100) 26 57 57(100) 38 385(100) 26 57 57(100) 38 385(100) 26 58 58(100) 27 27(100) 78 59 98 98 198(100) 7245 1245(100) 724	CATEGORY	-	X11151							1		40 400
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66 6611001 64 6411001 16 1611001 16 1611001 31 31 53 53(100) 53 53(100) 26 2611001 31 31(100) 32 32(100) 32 32(100) 32 32(100) 33 33(100) 33 33(100) 33 33(100) 43 44(100) 41 41(100) 42 42(100) 7 7(100) 44 44(100) 43 42(100) 7 7(100) 44 44(100) 43 42(100) 7 7(100) 44 44(100) 44 44(100) 44 44(100) 44 44(100) 44 44(100) 44<	52	126	126(10	126	- 5	3.8	38(1	24	Ξ	314	314(100)	7.0
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40	4	24	4 (10	23	<u></u>		Ξ	•	3(100)	55	1001)55	•
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0 0(000) 19 (100) 27 27(100) 30 981 981(100) 1245 (245(100) 724 724(100) 417 4	7.3	5.7	7	101	-	-	7811	<u>उ</u>	4	292	Ξ	8.7
981 981(100) 1245 1245(100) 724 724(100) 417 4	T	0	:	61	-	27	7	30	ŏ	76	1001194	2.3
981 981(100) 1245 1245(100) 724 724(100) 417 4												
	TOTAL		_	101 1245	1245(100)	724	724(100)	417		3367	336711001	100.0

FIGURE 1 (continued)

CATEGO	CATEGORY 2 SKILLS!	K11.LS1									
	167	LEVEL 3	LEVE	EVEL 5	LEVE	LEVEL 7	6 73/37	<u>-</u> -	10	TOTAL	PCT OF
SKL	Y	(R) 8 V	V	(%)B	· · V · ·	(X) B V	V	V 0 (X)	4	(X)8Y	TOTAL B
47	17	171100)	24	24(100)	6 1	19(100)	~	2(100)	62		3.6
6.8	7	41(100)	50	50(100)	20	20(100)	~	3(100)	† -	114(100)	•••
6.9	75	75(100)	361	361(100)	961	19611001	120	120(100)	752	752(100)	43.3
70	-	11001	205	205(100)	191	161(100)	96	1001)96	463	463(100)	26.6
7.6	0	0) 0	17	17(100)		3 (100)	7	2(100)	22	22(100)	
85	33	33(100)	1 42		8	81(100)	69	1001169	325	32511001	
			•	********					•		* • • • •
TOTAL	167	167(100)	199	79911001	480	480 480(100) 292	292	29211001	1738	29211001 1738 173811001	100.0

FIGURE 1 (continued)

CATEGORY 3 SKI	Y S S Y	וררצו		ų.	-	•				-	10
2			יייי און הייייייין און היייייין און הייייין און הייייין און הייייין און הייייין און הייייין און הייייין און הי דייין און היייין און הייייין און הייייין און הייייין און הייייין און הייייין און הייייין און הייייין און היייי		٠ ب	\		. !	•) 	4 4 6
ا د د ا		,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100.00		. T	- V - I	~ ~ ~	2 1	1 7 1 6	. 1
• . 1	.	-			7	-	•	•	•	•	
	23	3	127	127(100)	62	62(100)	20	Ξ	242	_	7.3
75	50	50(100)	108	108(100)	79	(001),9	59	1001)59	287	287(100)	8.7
	, ~	7 (100)	57	57(100)	34	Ξ	25	_	123	123(100)	3.7
7.8	7 8	=	7.6	94(100)	57	57(100)	51	5111001	228	228(100)	6.9
79		-1000	20	20(100)	-	4(100)	7	=	76	26(100)	9.0
00	31	31(100)	66	_	9	65(100)	87	87(100)	282	282(100)	9.0
	0	_	_	11100)	-	1 (100)	17	=	6-	1911001	9.0
12	8	_	113	113(100)	53	Ξ	7	41(100)	255	2 5	7.7
	25	25(100)	119	119(100)	66	99(100)	1 10	_	353		10.7
9 9	20	2011001	35	35(100)	25	5	8	_	138	138(100)	4.2
87	7.7	24(100)	47	47(100)	5	63(100)	30	30(100)	₩9	=	2•0
&	0	0) 0	121	121(100)	208	206(100)	120	120(100)	447	447(100)	13.6
6 9	125	1251100)	192	192(100)	104	104(100)		53(100)	474	474(1001	***
04	0	(•••)0	102	102(100)	47	47(100)	40	40(100)	189	189(100)	5.7
16	0	(•••)0	23	23(100)	21	21(100)	3	4(100)	4	1001)84	5 - 1
									; ; ;		
TOTAL	379	379(100)	1276	1276(100)	407	10011206	734	73411001	3296	3296(1001	100.0
GRAND	1527	1527(100)	3320	3320(100)	2111	2111(100)	1443	1443(100)	8401	0011106	100.0

FIGURE 2: S1 Initial Inventory

. . . SCENARIO SI - "STEADY STATE" . . .

SKILL I TO SI ENTERING POPULATION AND SEPARATIONS FOR YEAR I

76	LEVEL NO.	1 %	LEVE NO.	L 3 \$	LEVEL		LEVEL		LEYER	- 9 5	TOT 4	1L 5
1.	0	0.	1704	35.0	0	۰.	0	0.	٥	0•	1704	3.a
2	0	0.	2486	51.0	1274	6 • 0	0	0 •	ō	0•	3760	8 . 4
3	0	0•	631	13.0	4775	22.5	0	0 •	0	0•	5406	12.1
4	0	0•	50	1.0	4667		•	ο.	0	0.	4717	10.4
5 .	0	0.	0	0•	2439	11.5	0	0•	0	0•	2439	5.5
6	0	0•		0•	2120	10.0	165	1.0	0	0•	2285	5.1
7	. 0	0.	0	0•	1701	8.0	336	2.0	0	0•	2037	4 . 6
8	0	0•	0	0•	1270	6 • 0	497	3.0	0	0 •	1767	
9	٥	0.	0	.0• .	851	4.0	661	4.0	0	0•	1512	3.4
10.	0	0.	0	0.	632	3 • 0	993	6.0	.0	0•	1625	3.4
11	0	0.	0	0•	426	2 • 0	1161	7.0	0	0.	1587	3.6
12	0	0.	0	0•	212	1 . 0	1238		Ö	0 •	1450	
13	_ 0	0•	0	0•	208	.1 • 0	. 1329	8.0	2	0 • 1	1539	3.4
14	0	0.	0		107	0.5	1326	A • O	R	0.4	1441	
15	G	0.	0	0•	105	0 • 5	1325	g • 0	19	0.9	1448	3.2
16	0	0.	0	0•	8.8	0 • 4	1325		45		1458	
17	0	0.	0	0 •	86	0 • 4	1321	8.0	85	4 . 2	1492	3.3
18	0	0.	0		83	0 • 4	1316	8.0	125	6 • 1	1524	3.4
19	0	0.	0	0 •	83_	0 • 4	1160		189	9 • 3		3.2
20	0	0.	0		8 1	0 • 4	1157	7.0	249	12.2	1487	3.3
21	0	0.	. 0	0•	0	0 •	497	3.0		10.2	705	1.4
22	0	0.	a	G.	8	0 •	331	2.0		10.0	535	1.2
23	0	0.	0	0•	0	0 •	162	1.0	202	9.9	364	0.8
24	0	0.		0 •	0 0 0	0•	161	1.0	182	8 . 9	343	0.8
25	. 0	0.	0	0 •	0	0 •	48	0.3	163	8 • 0		0.5
26	0	0.	0		0	0,	29	n • 2		6 • 6	163	0.4
27	0	0.	0	0•	0	0 •	. 0	0 •	. 103	5.0		0.2
28	0	0.	ŏ	0•	0	0•	u	u e	48	3.3	. 68	0.2
29	0	0.	0		0	0•	Ö	0 •	42		42	0.0
30	0	0•	0	0 •	0	0 •		0•	16	0 • 8	16	
TOTAL	0	0.	4471	10.9	71206	47.6	14530	11.0	7040		""	-
.0185	. •	•	70/1	.0.7	# 1 Z U O	7/13	16538	3/•0	2073	4 • 6	44660	100•
• SEPS	0	0.	688	14.1	3736	17.6	. 996	6.0	250	12.2	5670	12.7
									_			
PRJCTN	0	0•	4163	85.9	17472	82.4	15542	94.0	1773	87.8	38990	87.3

FIGURE 2 (continued)

• • • SCENARIO SI - "STEADY STATE" • • •

	LEVEL	1	LEVEI	3	LEVEL	6	LEVE	7	LEVEI	•	TOTA	N I
YG	NO.	•	NO.	. 5	NO.	\$	NO.	*	NO.	* S	NO.	
1	0	0.	. 9	0 • 6	0	٥.	0	_ 0• .	0	۵.	9	0.1
ż	ŏ	ō.	34	2.2	ō	3.	0	_ 0.	0	0	34	0.4
3	0	0.	795	_	Ō	Ď•	ō	_ 0•	Ō	0+	795	9.5
4	0	0.	689	45.1	166	5.0	Ö	0.	0	0.	855	10.2
5	0	0.	0	0.	597	18.0	0	0.	0	0 •	597	7 . 1
۵	٥	0.	0	0.	534	16.1	0		0	0.	534	6.4
7	0	0.	0	0.	433	13.0	0	0•	0		433	5.2
•	0	0.	0	0.	468	14.1	0	0+	0		468	5 . 6
9	0	0.	. 0	0.	396	11.9	0	_ 0 •		0•	396	4.7
10	0	0.	0	0.	300	9 • 0	0	0•	. 0		300	3.6
11	0	0.	0	0.	266	8.0	40	1.9	. 0	0•	306	3.6
12	G	0.	0	0.	102	3 • 1	300	14.2	0	0.	402	4.8
13	0	_0• _	0_	0•	31	0 • 9	383_	_18 • 1	0	0•	414	4.9
14	0	0•	0	9•	27	0 • 8	341	16.2	0	0 •	368	4 . 4
15	0	0.	_ 0	Q.	. 0	0•	316	15.0	14	1.0	, 330	3.9
16	0	0.	0	0.	0	0 •	292	13.8	13	0 . 9	305	3.6
17	Q	Q •	0	0.	0	0 •	168	8.0	103	7 • 1	271	3 • Z
18	0	0•	0	•	0	0•	8.6	4 • 1	142	9 • 8	228	2.7
17	0	_ 0 •	0	0 •	O.	0•	80	3.8		12.2	256	3.0
20	0	0•	0	Q •	0	0 •	63		208	14.4	271	3 • 2
21	0	0•	0		0	0•	21	-		13.3	213	2.5
22	0	0 •	0	0.	0	0 •	21		159	11.0	180	2.1
23	0	J •	0	0.	0	0 •	. 0	. 0 •	114	7 • 9	114	1.4
24	0	٥.	0		0	-	0	0•	86	4.0	86	1.0
25	0	○・	0	_0•	0	.0•	0	0 • .	72	5.0	72	0.9
26	0	0•	0	0•	0	∙ 0	0	0 •	72		72	0.7
27	0	0•	0	-	0	-	0	•	. 45		45	0.5
28	0	0.	0	_	0	-	0	_	28	-		0.3
29	0	0•	0	• •	0	0•	0	•	10	-	10	0 • 1
30	0	0.	0	0.	0	0.	0	0.	9	0.4	,	0.1
TOTAL	0	0•	1527	18 • 2	3320	39•5	2111	25 • 1	1443	17.2	8401	100•
- SEPS	0	0•	192	12.6	303	9 • 1	328	15.5	56	3,9	87	10-9
PRJETN		0.	1335	87.4	3017	90+7	1783	84.5	1387	94.1	762	2 89.0

FIGURE 3: S1 Promotion Plans for Years 1 and 2

• • • SCENARIO SI • "STEADY STATE" • • •

SKILL -1 UPGRADE PLAN FOR YEAR 1

	LVL 1	_ LVL. 3	LVL 5-	LVL .7	LVL 9	TOTAL
PROJECTION	0	1335	3017	1783	1387	7522
PROMOTABLES	0	1326	1341.	1067	939	4673
AUTHORIZATION	0.	1527	320_	2111	1443	8401
PROMOTION RATES	-	0.518	0.286	0.052	0.0	
VACANCIES	879	192	303	328	. 56	1758
UPGRADE DEMANDS	879	879	687	384	56	•

^{•••} PROMOTION FAILURE INTO LEVEL 5 REQ= 4982 ELIGIBLES 2693

• • • SCENARIO SI • #STEADY STATE# • • •

UPGRADE DEMANDS 3381 3381 2693 1246 250

FIGURE 3 (contin 1)

• • • SCENARIO SI - "STEADY STATE" • • •

SKILL -	UPGRADE	E PLAN FO	OR YEAR 2		
		**			
		· · · · · · · · ·			-
LVL 1	LVL 3	LVL 5	LVL7	LVL 9	TOTAL
. 0	1369	3205	1833	1370	7777
s o	1369	. 1324	1115	1042	4850
0	1527	3320_	2111	1443.	8401
•	0.340	0:265	0.065.	0.0	•
624	158	115	278	73	1248
624	624	466	351	73	•
	LVL 1 0 5 0	LVL 1 LVL 3 1 0 1369 1 0 1369 1 0 1527 1 0 340 1 58	LVL 1 LVL 3 LVL 5 1 0 1369 3205 3 0 1369 1324 1 0 1527 3320 - 0.340 0.265 - 624 158 115	LVL 1 LVL 3 LVL 5 LVL 7 1 0 1369 3205 1833 3 0 1369 1324 1115 1 0 1527 3320 2111 3 0.340 0.265 0.065 5 624 158 115 278	

••• PROMOTION FAILURE INTO LEVEL 5 REQ= 7131 ELIGIBLES 4242

• • • SCENARIO SI - "STEADY STATE" • • •

	SKILL -2	UPGRADE	PLAN FO	R YEAR 2		
	LVL_1_	LVL .3_	LVL_5_	LYL_7_	LVL9	_TOTAL
PROJECTION	0	4242	_ 15399	15499		36900
PROMOTABLES	0	_ 4242	15399	15472	1760	36873
AUTHORIZATION	ı. <u></u> 0	4871_	21208	16538_	2043	<u>4.4660</u>
PROMOTION RATES		. 1.	0.085	0.018	0.0	• •••••
VACANCIES	4871	629	5809	1039	283	12631
UPGRADE DEHANDS	4871	4871	4242	1322	283	

FIGURE 4: S1 Aggregate Results for Years 1 and 2

* * * SCENARIO SI * "STEADY STATE" * * *

YEAR IS AGGREGATE RESULTS

	LEVEL	P 0 P	LEVEL	PoP	LEVEL CHNG	POP	LEVEL	7 P0P	LEVEL	P 0 P	TOTAL	it PoP
SKILL 1												
ENTERING	•	0	•	•	1	22	•	31	•	12		7.1
- SEPS		0	0	•	~	6	-	30	0	12	7	67
(EXP)		0	0	•	C)	6-		30	0	1 2	7	67
• UPG 0U1		+	Ŧ	8	-	18	-	53	0	12	0	57
+ UPG 1N	=	0	Ŧ	•	3	22	7	30		13	7	7.1
- XT OUT	1	0	0	•	0	22	0	30	-	12	-	7.0
NET RESULT	0	0	0			22	. – 	. 05	. 0	12		7.0
AUTHOR17ED	_	0		•		22		31		13		7.1
SKILL			•									
ENTERING	•	0		12	•	21	•	4.9	; •	12	•	4
• SEPS	0	0	7	<u>-</u>	M	18		40	Ģ	7	•	88
(EXP)		0	7	0	•	18	-	48	0	1 2	•	88
- UPG DUT	©	8	7	C		17		47	0	12	17	7.1
+ UPG IN		0	0	=	7	24	-	4.0	-	13	25	9 6
- XT OUT	:	0	•	=	•	77	0	48	-	. 12	7	9.2
NET RESULT	0	•	: 	: =		2	; ; ;	. 8+	: 0	12		92
AUTHOR ZED		0	•	13		7 7		4.0	,	15		- 6
SKILL 3	,				:			•				
ENTERING	•	0	•	¥.		67	•	9 1	•	28	t	274
• SEPS	0	0	8	12	12	2	01	155	е	25	27	247
(EXP)	0	0	8	12	12	55	0	155	n	25	27	247
· UPG OUT	0	07-	89	Ŧ	7	2	m	152	0	52	52	222
+ UPG 18	<u> </u>	0	0	Ŧ	8	5 6	Ŧ	156	n	58	35	257
NET RESULT	0				8	. 0		. 22				1 2 2 4
AUTHORIZED	i	0	:)	*	1			165)	7 8	•	274

FIGURE 4 (continued)

SKILL 4	٠	G	•	355	•	4		55.0	•			1550
	c		4		0	٠ ٦	30	י ה ה				7 7 7
25.73	.	>	ا د د	3 U S	6	r	T :	676	r :		7 /	1357
۵	0	0	20	305	9.5	Ŧ	70	525	-		•	1357
0	246	-246	197	108	32	_	80	517	0		8	874
+ UPG IN	246	0	246	354	197	6 1 1	32	549	60	89	729	1603
		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!										
RE S	0	0	-	354	70	9	0.	549	9	8	53	1603
1 2 E		0		355		*		559				2
1111					;	1	1					
ENTERING	•	0	•	6-	•	28	·	3	•	7	L	93
	0	0	7	17	~	25	-	4.	0	7	•	87
(EXP)	0	0	7	1.7	~	25	-	40	0	7	•	87
	13	-13	=	•	~	23	-	47	0	7	27	9
+ UPG 12	=	0		6-	=	34	7	Ŧ	-	•	•	100
• X1 0	0	•	0	6 1	•	28	0	य उ		~	^	6
RESUL				-		28	0	7 7 	0	2		93
1 -	•	· c	•	2		28	•	- - -	•	~	•	
			!			; : :	!	. !				
		(•
NTERIN	ŧ	0		121		48	•		*		• ;	•
• SEPS	0	0		129		0	4	~	_		154	Ŧ
ď	0	0	22	129	# 60	•	34	~	=		154	3
9	105	501 -		-9		~	•	~	0		225	-
G	105	0		151		S	28	S	۰.		330	₹
Z	0	0	0	121	_	455	0	558	0	85	-	1249
					ı			•				
"	0	0	0	151	-28	455	- 15	S	Ş	8	8+	1249
AUTHOR12ED		0		181		8		~				•
KILL				:			! !		į			
ENTERING		0	•		•	67	•	95			•	0
- SEPS	0	0	*	6	12	ខ្ម	•	6	0	17		180
EX	0	٥	*		~	ស	•	8	0			180
Q	9	9 -	12	7	3	5		88	0		33	147
+ UPG IN	16	0	9 1	23		63	≠	9.5	-	8 7	40	961
RESUL	0	0 (0	23	Ŧ ſ	9	?	9.5	-	5	•	961
AUTHOR 1 ZED		0								-		202

FIGURE 4 (continued)

										,		:
ENTERING	•	0	•	7	•	181	•	707		- n	•	20 7 7
- SEPS	0	0	•	55	56	125	=	- 6 -	~	7 8	4. 0.	366
(EXP)	0	0	•	55	78	125	=	161	~	78	₹	399
- UPG OUT	Ŧ	7-1		61	•	1 16	~	188	0	58	92	307
9	# #	0	T T	63	36	152	•	197	m	3.	136	M + 4
								107		-	: S	1 3
AUTHORIZED) 	0	• • • •	7 4	• :	2.5	;	202	•	3 6	ı	1 0
•	ļ !	İ										
SKILL 9	: 1	c	ı			-	•	-	•	0.0	•	157
FRIERING	8 6	> (• =	- r	,	n c		101	· c	2 6	4	317
• SEPS) C)	ra	, ,	, ,	9 0	۰ ۰	100	o C	200	. 1	317
EXPI	ָ כ			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	`, °	07-		1 2	,	2 6		267
• UPG 0UT	77	774	` - - -) - -	-	134	-			2 6	7.2	3.39
+ UPG 12	77	ָר פּיִּר		70	- 0	7 1					, L	
NET RESULT			-	32		136	• 2	149	~	22	* I 8	339
AUTHORIZED)	0	•	15	•	155		181		20		3
SKILL 10	1		!	• 1			!	i	:			0
ENTERING	•	0	•	67		638	•	200	4	-		1471
• SEPS	0	0	0	57	1 1 4	524	¥ M	513	=	37	162	1137
(EXP)	0	0	01	5.7	114	524	34	519	*	37	162	1137
· UPG OUT	47	-47	37	20	37	487	&	211	0	37	129	1008
+ UPG 12	47	0	47	6.7	37	524	37	548	•	<u>4</u>	176	184
ATT TY	0	0	0	67		525	0	548	0	4	-	1185
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					*~-	1185
NET RESULT	>	>	>		-	•		٠,	•		•	
AUTHOR 1 ZED		0				~		ហ				1 2 3 3
SKILL II				(;		•	,	c	(3
ENTERING	•	0	•	0	•	9	•	15	B ()	;	
• SEPS	0	0	0	0	~	<u> </u>	-	30	0	0	7 :	T :
(EXP)	0	0	0	0	~	-	-	30	0	0	-	4
- UPG OUT	0	0	0	0	-	12	-	29	0	0	7	- :
_	0	0	0	0		12	→ !	30	(~ 6	7	m !
NET BESUIT					; ;	12	7 -	30	-	-	*	43
	>	2 (,	· c	•		•	7		0		47
AUTHORIUA		>		>		•		,		i		

FIGURE 4 (continued)

SK111 12		,		•			-			•		
N I E E I N	•	0	•	30	•	212	•	212	B.	^	•	•
- SEPS	0	0	7	5 8	37	175	=	201	0	- 2	25	-
(EXP)	0	٥	3	76	37	175	====	201	0	- 5	25	-
- UPG OUT	21	-21		0	12	163	~	198	0	5	25	365
+ UPG IN	21	0	21	31	9 7	179	12	210	•	18	73	~
						- 10		2.0	•			
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- UPG OUT	53	-53	42	23		337	•	364	0	20	~	721
+ UPG 1N	53	0	53	76	45	379	56	390	•	56	180	106
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FIGURE 4 (continued)

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	+ UPG IN	26	0	76	37	21	187	13	199	~	23	89	4 4 6
		*											
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FIGURE 4 (continued)

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		2520	0000	0	00!	0
SXILL 20 ENTERING SEPS (EXP) TUPG OUT	NET RESULT AUTHORIZED SKILL 21 ENTERING - SEPS	CEXP) UPG OUT UPG IN THE TESULT AUTHORIZED	SKILL 22 ENTERING SEPS (EXP) UPG OUT		CENT CENT CENT CENT CENT CENT CENT CENT	E S

FIGURE 4 (continued)

XILL 24	0	<b>C</b>	•	-	•	<		Ξ	•	C	•	20
5EPS	0	0			-	· ~	0		0	0	-	-
(EXP)	0	0	0	. <b>—</b> i	!	7	0	-	0	0		<u>~</u>
P UPG OUT	-	-	-	0	-	•	0	=	0	0	m	9-
UPG IN	-	0	-	-	-	~	-	13	٥	0	*	20
XT OU	0 1	0	0	- !	. 1	7	-		0 1	0 1	- (	61
ET RESULT	0	0	0	-	7	7	0	-	0	0	-	6-1
AUTHORIZED		0		-		8		-		0		20
111 25	:											
TERING	•	0	•	7	•	ហ	•	12	•	0		19
- UPG OUT	-	7	-	-	0	S	0	12	0	0	~	17
· UPG IN	-	0	_	7	_	9	0	15	0	0	•	20
X	0	0	0	7	-	ស	0	12	0	0	- 1	61
ET RESULT	0	0	0	2	0	S	0	12	0	0	0	6-
I		0		<b>.</b>		<b>G</b>		13		0		6-
111												
NICHING	•	0	! .	77		_	•	0	•		•	803
• SEPS	0	Ö	- 1	99	- 72	339	17	273	7	23	102	701
(EXP)	0	0	=	99	72	~	17	~	~		102	701
· UPG	53	•53	42	74	74	-	<b>T</b>	•	0		123	578
	53	0	53	77		<b>S</b>	24	293	# (	27	176	754
,	0	0	0		-54	357			2	27	*	754
UTHORIZED		0		. 11		_		290		<b>5</b> 2		803
KILL 27		•		Ġ		, ,	,	, ,			(	
TERIN	•	0	•	240	•	05/1	•	180				1076
	•	0	<b>-</b>	249	307	1423	7	9101	<del>+</del> -		433	2768
(EXP)	0	0	7	249	307	1423	7.1	9101			433	2768
· UPG OUT	201	-201	1 9 1	89	101	1322	9	1000	0	08	479	2289
UPG IN	201	0	201	289	1 9 1	1483	101	101	9		9	2969
TT IN	0	0	0	8	<b>G</b>	1488		0	7	9 6	0.	2979
ACT DOCUMENT		, ,	-		10 10 10	t a		1 0	t <b>=</b>			. 0
AUTHORIZED	>	9 0	•	290	-	1730		1087	•	0-	i	3201
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FIGURE 4 (continued)

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FEIFFIRE	•	0	•	7	•		•	771		7	•	155
• SEPS	0	0	7	70	27		•	9	~	2 1	39	292
(EXP)	0	0	*	70	27	135	•	911	~	7	39	292
• UPG 0UT	17	-17	12	60	2		~	<b>+</b> 1 1	0	12	4	251
• UPG IN	17	0	17	<b>3</b> 2	12	137	<u>°</u>	124	7	23		309
		: 0		1 1 5				1 3 0 -	1 6			
MET RESULT	>	<b>-</b>	-				•	L 7 1	>	7		100
AUTHORIZED		0		7 4		162		122		23		331
ار 2	:	!	† †	•	***		1 :					
ENTERING	•	0	•	171	•	1192	•	•	•	167	•	2429
- SEPS	0	0	<b>52</b>	9+1	_	918	59	Ŧ	22	145	320	2109
(EXP)		0	25	146	214	978	5	3	22	145	320	2109
• UPG OUT	=	-119	4	25	70	906	<b>-</b>	~	0	145	297	1812
+ UPG IN	=	0	119	171	46	1002	70	968	4	159	416	2228
+ TT IN	0	0	0	171	~	1005	0	0	-	160	₹	2232
	•			1								
NET RESULT	0	0	0	121:	-187	1005	e .	6	- 7	160	-197	2232
AUTHOR 1 ZED		0		171		1192		899		167		2429
ENTERING	•	0	• !	5.8	•	3 4 4	•	3	•	0	•	9 7 9
• SEPS	0	0	6	4	09	284	1.2	٠,	0	0	69	567
(EXP)	0	0	•	4	09	284	12	L)	0	0	8	567
* UPG 0U1	40	10	32	17	20	764	<b>.</b>	•	0	0	96	471
+ UPG IN	40	0	40		32	0	20	S	Ŧ	#	136	404
NET RESULT	-	. 0		57	8 T		) T	250	- -	;		607
AUTHORIZED		0	;	28	,	346		<b>3</b>		0		9
SKILL 31										1		
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. SEPS .	0	0	0	~	~	81	-	7 4	₹	36	æ	9
(EXP)	0	0	0	~	~	18	-	24	<b>Ŧ</b>	36	<b>a</b> 0	9
• UPG 0UT	~	-2	7		-	17	0	24	0	36	S.	16
2	7	0	7	•	7	61	-	25	0	36	•	83
NET RESULT	0			-	-2	61		25		96	9	6
AUTHORITE	•	) c	•	, ,	1		)		•	4		
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FIGURE 4 (continued)

FERSILL 33  ENTRENCT CO	L 32	•	c	•	-	•	3	-	u	•		•	7
83 -83 65 17 102 76 365 13 241 3 30 109 73 83 83 -83 65 37 26 36 37 4 237 0 30 178 56 82 83 83 -83 65 37 26 37 4 37 4 23 7 0 30 178 56 82 83 83 83 120 65 441 9 26 37 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 946 29 479 14 84 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 276 167 205 94 205 94 276 167 205 94 276 167 205 94 276 167 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 205 94 2	5	•	>			•	7 -	1	Ω	•	ָרָר יִינְי	•	•
0 0 0 17 102 76 346 13 241 3 30 109 73 83 83 -03 -03 65 31 1 20 65 404 26 263 1 1 34 -26 82 82 83 9 1 20 6 65 404 26 263 1 1 34 -26 82 82 83 120 65 946 29 479 14 84 276 167 135 135 136 135 135 136 135 136 135 136 136 135 136 136 136 136 136 136 136 136 136 136	5	0	0		102	76	365	-	3	~	30	109	~
83 -83 65 120 65 404 26 263 4 134 261 85 84 84 84 84 84 87 1 120 -37 404 9 263 1 1 33 -26 84 84 84 84 84 87 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(a)	0	0		102	76	398	-	4	~	30	109	~
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Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect	NET RESULT		0	0	7.7	3	322		. 2	7			699
ERING	AUTHORIZED		0				•		3				703
ERING	KILL 3					-							
SEPS 0 0 22 137 106 494 24 401 3 33 155 1 105 0 0 0 22 137 106 494 24 401 3 33 155 1 105 0 0 0 0 22 137 106 494 24 401 3 33 155 1 105 0 0 110 159 88 547 35 430 6 39 349 1 105 110 1159 88 547 35 430 3 39 49 1 105 110 1159 88 61 13 29 445 10 51 153 155 1 105 110 1159 88 413 29 445 10 51 153 1153 1155 1 105 110 1159 10 0 126 158 88 413 29 445 10 51 153 1153 1155 110 115 115 115 115 115 115 115 11	NTERIN	•	0	•	159	•	009	•	425	•	36	•	1220
UPG   OUT   100   110   129   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135   135	- SEPS	0	0	22	137	106	464	24	401	~	33	155	1065
UPG OUT 110 -110 88 49 35 459 6 395 0 33 239 UPG OUT 110 -110 159 88 547 35 430 6 39 349 11    RESULT 0 0 0 159 -53 547 5 425 3 4		0	0	22	137	901	464	7.4	401	~	33	155	1065
RESULT   0	UPG	110	011.	88	4	35	454	•	395	0	33	239	826
RESULT 0 0 0 159 -53 547 5 430 3 39 -45 1  LL 38  ERING	UPG	10	0	110	159	88	547		430	•	39	349	1175
RESULT 0				****	* * * *	Ĭ	\$ 1 8 1					•	
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ERING	UTHOR12E	1	0	•	159	!	009	:	425	•			1220
ERING       0       184       501       474       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61       61	ا.												
SEPS         0         26         158         88         413         29         445         10         51         153         1           UPG         0UT         128         102         56         29         384         7         445         10         51         153         1           UPG         1N         128         102         56         29         384         7         445         10         51         266           UPG         1N         128         184         102         486         29         467         7         56         394         1           RESULT         0         0         184         -15         486         -7         467         -3         58         -25         1           LL         39         -184         -15         486         -7         467         -3         58         -25         1           LL         39         -184         -15         486         -7         467         -3         58         -25         1           LL         39         -184         -15         59         281         10         161         0         12	RIN	•	0	•	184	•	0	•	~	E		•	1220
UPG OUT 128     -128     102     56     29     384     7     438     10     51     266       UPG OUT 128     -128     102     56     29     384     7     438     0     51     266       UPG IN     128     102     486     -7     467     -7     58     394     1       RESULT     0     0     184     -15     486     -7     467     -3     58     -25     1       LL     39     -8     -15     486     -7     467     -3     58     -25     1       LL     39     -8     -15     474     61     61     1       LL     39     -9     281     10     161     0     12     82       ERING     0     0     13     79     59     281     10     161     0     12     13       LEXP     0     0     13     79     59     281     10     161     0     12     13       UPG     1N     64     92     51     312     20     178     3     15     202       HRESULT     0     0     92     -28     312     7 <td< td=""><td>111</td><td>0</td><td>0</td><td>92</td><td>158</td><td>88</td><td>_</td><td>29</td><td>4</td><td>0</td><td></td><td>153</td><td>1067</td></td<>	111	0	0	92	158	88	_	29	4	0		153	1067
UPG OUT 128     -128     102     56     29     384     7     438     0     51     266       UPG IN 128     0     128     184     102     486     -7     467     -7     58     -25     1       RESULT     0     0     184     -15     486     -7     467     -3     58     -25     1       LL     39     184     -15     486     -7     467     -3     58     -25     1       LL     39     184     -15     486     -7     467     -3     58     -25     1       LL     39     184     -15     496     -7     467     -3     58     -25     1       LL     39     184     -15     496     -7     467     -3     58     -25     1       LL     39     19     16     161     0     12     82       ERING     0     0     13     79     59     281     10     161     0     12     138       UPG     1N     64     92     51     312     20     178     3     15     -18       UPG     10     0     92     -2	(EXP)	0	0	79	158	89	_	29	*	2		S	1067
UPG IN 128         0 128 184 102 486 29 467         7 58 394 1           RESULT 0 0 0 184 -15 486 -7 467 -3 58 -25 1         10 184 -15 486 -7 467 -3 58 -25 1           HORIZED 0 0 184 -15 486 -7 467 -3 58 -25 1         194 15 18 12 18 10 161 0 12 82 1           LL 39	UPG			102	26	53	€	7	•	0		9	801
RESULT 0 0 0 184 -15 486 -7 467 -3 58 -25 1  HORIZED 0 184 -15 486 -7 467 -3 58 -25 1  LL 39  ERING - 0 - 92 - 340 - 171 - 12 82  ERING - 0 0 13 79 59 281 10 161 0 12 82  ERPS 0 0 13 79 59 281 10 161 0 12 82  ERPS 0 0 13 79 59 281 10 161 0 12 82  ERPS 0 0 13 79 59 281 10 161 0 12 82  ERPS 0 0 14 51 28 20 261 3 158 0 12 138  RESULT 0 0 0 92 -28 312 7 178 3 15 -18	UPG			128	184	0	8	29	9	7		0	1195
LL 39  ERING	T RESUL						. 0		. ~				1195
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ERING       0       -       92       -       340       -       171       -       12       -       61         SEPS       0       0       13       79       59       281       10       161       0       12       82       53         JPG       0       0       13       79       59       281       10       161       0       12       82       53         JPG       0       0       13       79       59       281       10       161       0       12       138       39         JPG       1N       64       92       51       31       2       178       3       15       202       59         LEXPL       0       0       92       -28       312       7       178       3       15       -18       59         ARESULT       0       0       92       -28       312       7       178       3       15       -18       59	ار 1	;	:		!			:	;		ı		
SEPS 0 0 13 79 59 281 10 161 0 12 82 53 (EXP) 0 0 13 79 59 281 10 161 0 12 02 53 UPG OUT 64 -64 51 28 20 261 3 158 0 12 138 39 UPG IN 64 0 64 92 51 312 20 178 3 15 202 59 RESULT 0 0 92 -28 312 7 178 3 15 -18 59 HORIZED	FRIR	•	0		92		340	•	171	•	12		-
UPG OUT 64 -64 51 28 20 261 30 161 00 12 02 53 UPG OUT 64 -64 51 28 20 261 3 158 00 12 138 39 UPG IN 64 0 64 92 51 312 20 178 3 15 202 59 RESULT 0 0 0 92 -28 312 7 178 3 15 -18 59 HORIZED	SEP	٥	0	-	19	59	281		191	0	12		~
UPG OUT 64 -64 51 28 20 261 3 158 0 12 138 39 UPG 1N 64 0 64 92 51 312 20 178 3 15 202 59 ESULT 0 0 92 -28 312 7 178 3 15 -18 59 HORIZED	Δ.	0	0	=	19	5	281		191	0	12		~
UPG IN 64 0 64 92 51 312 20 178 3 15 202 59  RESULT 0 0 0 92 -28 312 7 178 3 15 -18 59  HORIZED 0 92 -28 340 171 178 1 12 -18 59	UPGO		•	21	28	20	261	<b>m</b>	158	0	12	~	0
RESULT 0 0 0 92 -28 312 7 178 3 15 -18 5 HORIZED 0 92 340 171 12 6	+ UPG 1		0	49	92	5	312	20	178	0	15	0 1	0
HORIZED 0 92 340 171 12 6					92	iã	312	-	178		15		597
			. C	1	6		. 3				12		9 1 9

FIGURE 4 (continued)

SERIOR         O         31         183         174         792         33         511         3         29         241         151           UPG         11         18         65         57         35         511         3         29         241         151           UPG         11         99         149         214         118         65         3         6         5         7         481         166         9         37         481         166         9         37         481         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166         166 <t< th=""><th>SKILL 40</th><th>•</th><th>c</th><th>•</th><th>21.</th><th>•</th><th>&lt;</th><th></th><th>3</th><th></th><th>32</th><th>•</th><th>1756</th></t<>	SKILL 40	•	c	•	21.	•	<		3		32	•	1756
149	2723	,	•		•		•			•	9 6	. 7 (	
149	SEP	0	0		183	174	•			<del>-</del> )	42	1 . 7	<u>,</u>
149	(EXP)	0	0		183	174	•		115	~	53	241	5
149	UPG				65	57	~		0	0	53	332	8
0 0 0 214 -113 853 16 560 5 37 -92 166  0 0 0 214 -113 853 16 560 5 37 -92 166  1 0 0 0 7 47 55 267 12 214 0 11 74 53  38 -38 30 17 15 248 19 230 3 14 128 57  0 0 0 1 55 -44 278 19 230 3 14 128 57  0 0 0 5 5 7 72 345 12 225 2 23 95 65  46 -46 37 25 320 4 27 6 4 27 6 6 5  46 -46 37 20 32  4 27 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	UPG		0		214	1.8	S		•	<b>©</b>	37	481	99
0	:					i.							****
0         214         966         544         32         175         175         175         175         175         175         174         53         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175         175	2	0	0	0	-		ß		•	Ω	7	71-	0
0         0         7         47         55         267         12         214         0         11         74         53           0         0         7         47         55         267         12         214         0         11         74         53           1         0         0         7         47         55         267         12         214         0         11         74         53           1         0         0         0         278         19         230         3         14         128         54           0         0         0         0         0         0         11         278         4         230         3         14         -36         57           0         0         0         0         0         0         0         0         11         0         11         -36         57           0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	HOH		•		-		•		3		32		1756
38       39       32       22       22       11       74       55       267       12       214       0       11       74       55       267       12       214       0       11       74       55       267       12       214       0       11       74       59       44       55       267       12       214       0       11       74       59       44       44       278       19       230       3       14       128       57       44       44       278       4       230       3       14       -36       57       57       44       278       4       230       3       14       -36       57       74       57       4       278       4       230       3       14       -36       57       74       57       4       231       3       14       -36       57       74       57       4       231       3       14       -36       57       4       231       13       231       233       13       4       231       13       13       231       234       13       234       14       234       234       234       234       234 <td< td=""><td>111</td><td></td><td></td><td></td><td></td><td></td><td>,</td><td></td><td></td><td></td><td>•</td><td></td><td>•</td></td<>	111						,				•		•
0 0 0 7 47 55 267 12 214 0 11 74 53  1	TERIN	•	0	•	5. 1.	•	322	•	226	1	=	•	6 1 3
0         0         7         47         55         267         12         214         0         11         74         53           38         38         30         17         19         248         3         211         0         11         90         44           1         0         0         1         55         44         278         4         230         3         14         128         57           0         0         0         9         57         72         345         12         225         2         23         14         55         65         65         65         61         61         61         61         61         61         61         61         61         61         61         61         61         61         61         61         61         61         61         61         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62         62	SEPS	0	0	^	47	55	267		214	0	=	7.	539
36         -36         30         17         19         248         3         211         0         11         90         44           36         0         38         55         30         278         19         230         3         14         -36         57           0         0         1         55         -44         278         4         230         3         14         -36         57           0         0         0         4         27         278         4         230         3         14         -36         57           0         0         0         9         57         72         345         12         225         2         2         23         95         65         65         65         6         6         6         6         37         357         225         244         4         27         158         69         65         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69         69	· (dxa)	0	0	7	47	55	267		214	0	=	7	539
36         0         36         55         30         278         19         230         3         14         128         57           0         0         1         55         -44         278         4         230         3         14         -36         57           0         0         0         9         57         72         345         12         225         2         2         2         3         95         65           46         -46         57         72         345         12         225         2         2         2         3         95         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65         65	100	38	~	30	17	6	248		211	0	=	90	4 1 9
0         0         1         55         "44         278         4         230         3         14         "36         57           0         0         0         9         57         72         345         12         225         2         23         95         65           0         0         9         57         72         345         12         225         2         23         95         65           46         -46         37         25         320         4         221         0         23         112         53         95         65           46         -46         37         357         25         246         4         27         158         65           46         -6         37         357         25         246         4         27         158         65           0         0         0         0         0         417         234         27         158         69           0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	UPG	38	0	38	25	30	278	61	230	m	Ŧ.	1.28	577
0 0 0 1 55 44 278 724 11	2 5 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1 :	* *	4 : 4 6 1	1 6		1 3		
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FIGURE 4 (continued)

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(EXP)	0		9	370	278	1290	92	1334	20	122	450	3116
0		-298	~	132	92	1198	21	1313	0	122	649	2467
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NET RESULT	0	0	0	130	4.4	453	- 35	742	-17	193	- 98	1518
AUTHORIZED		0		130		466		^		210		1616

FIGURE 4 (continued)

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FIGURE 4 (continued)

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138  -338  2693   1990   1246   16226   250   5592   0   1793   5670   3138  -338  2693   1990   1246   16226   250   5592   0   1793   7570   3138  -338  200   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100		۔ م	0	889	9	3736	17472	966	5	LO.	1793	567	
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FIGURE 4 (continued)

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FIGURE 4 (continued)

SKILL 58 ENTERING	•	0	•	7	•	7		<b>S</b>	t	~	•	101
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(EXP)	0	0	•	38	•	38	7	13	0	P~	=	96
- UPG OUT	<b>52</b>	-25	20	80	ហ	33	0		0	^	20	<b>4</b>
-	<b>5</b> 2	٥	25	43	20	53	w	9 7	0	^	75	121
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KILL 5												
ENTERING		0	•	<u>ት</u>	•	₹ S		45	•	•	L	138
	0	0	•	39	ស	40	S	37	0	•	91	122
(EXP)	0	0	•	39	S	0	S	37	0	•	91	122
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UPG	79	0	78	45	20	5.5	ភ	7	-	^	78	148
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SK 11.1 60			,				i	,				
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- SEPS	0	0	₹	78	~	76	7	54	0	#	0	82
(EXP)	0	0	<b>Ŧ</b>	<b>3</b> 8	7	76	₹	54	0	#	01	8 2
- UPG OUT	<b>8</b>	• I B	<del>-</del>	7	~	23	-	23	0	7	36	4
UPG 1	8	0	8	32	<u>-</u>	37	•	76		ហ	رن ع	100
NET RESULT	0	0		32		37	. 2	. 56	· • —	5	6 60 1	00
_		٥		. 32		28		28		7		85
-								•.				
ENTERING	*	0	•	34	•	34	•	<b>2</b> 0		#		
SEPS	0	0	S	29	7	32	0	<b>æ</b>	0	7	7	
(EXP)	0	0	ស	29	7	32	0	æ	0	<b>*</b>	^	
	20	-20	- 5	<del>*</del>	*	28	0	<b>æ</b>	0	7	39	
+ UPG 1N	70	0	20	34	<u>5</u>	4	Ŧ	13	0	7		93
Art orall T										,		
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AUTHORIZED		<b>ɔ</b>		, ,				Þ		r		

FIGURE 4 (continued)

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4	<b>5</b> 6	EC.	œ	œ	œ		<b>3</b> 0	<b>©</b>		O	0	0	0	0		> '	0		c	o C	0	0	0		0		0	0	0	0	0		
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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

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(EXP)	0	0	0	0	=	0	36	170	7	113	5.	393
• UPG OUT	0	0	0	0	<u>-</u>	96	ហ	165	•	113	<u>6</u>	374
P.	0	0	0	0	0	96	<b>*</b>	179	S.	118	61	393
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-		0	•	0		121		206		120		447
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SEPS	0	0	91	109	61	173		88	7	2	53	421
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FIGURE 4 (continued)

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FIGURE 4 (continued)

AGGREGATE RESULTS

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FIGURE 4 (continued)

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- uPs out	246	-246	308			453	•	505	0	75	909	787
+ UPG IN	*	0	246	246	306	191	45	547	•	<b>3</b>	851	1638
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T RES	0	0	-108	246	150	191	-2	547	<b>S</b>	<b>∓</b>	25	1638
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SKILL 5					-			;	•	•		1
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(EXP)		0	8	17	S	23	7	42	0	~	•	40
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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

Very   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court   Court	SKILL 20		•		1		•						
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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

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FIGURE 4 (continued)

RESULT         0         0         10         67         59         26.3         14         23.3         2         21         85         5         24.3         14         23.3         2         21         85         5         24.0         4         29         24.0         4         29         25         14         23.0         2         2         1         85         5         2         2         1         4         2         2         1         4         2         2         1         85         5         2         2         1         1         85         5         2         2         1         1         2         2         1         1         2         2         1         1         2         2         1         1         2         2         1         2         2         1         2         2         1         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2 <th>SKILL 36 Entering</th> <th>•</th> <th>0</th> <th>•</th> <th>7.7</th> <th>•</th> <th>322</th> <th></th> <th>3</th> <th>e</th> <th></th> <th>•</th> <th>677</th>	SKILL 36 Entering	•	0	•	7.7	•	322		3	e		•	677
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FIGURE 4 (continued)

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SKILL 40 ENTERING - SEPS - (EXP) - UPG OUT	1 HO 1 HO 1 HO 1 HO 1 HO 1 HO 1 HO 1 HO	TEXP)  UPG OUT  UPG IN  UPG IN  NET RESULT	AN HERE	AUTHORIZED  SKILL 43 ENTERING  SEPS  (EXP)  UPG OUT  UPG OUT  UPG IN

FIGURE 4 (continued)

SKILL 44								•		•		•
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KILL 4										•		
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N G G G	298		298	298	375	1442	100	1384	2	146	1095	27
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NET RESULT	0	0	-132	298	•	1442	-21	1384	m	146	7 7 -	3270
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ENTERING	٠	0	1	130	•	453	•	7 42	•	193		1518
SEPS			1.1	113	8 5	368	52	9 9 0	58	164	183	1335
(EXP)	0	0	17	113	6 5	368	52	9 4 0	58	164	8	1335
- UPG OUT	90	- 90	113	0	32	336	=	677	0	<b>79</b>	248	1087
+ UPG 1N	90	0	9.0	90	113	449	32	709	<u> </u>	177	~ (	1425
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NET RESULT	0	0	0+	0	*	\$ T	-33	, o,	-	//	7	1425
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FIGURE 4 (continued)

FESTING OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOTE OF THE NOT	SKILL 48	1	C	(	ų	1		•	4	1	3	•	
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UPG   OUT 323	SEPS	0	0	09	405	339	^	53	m	<u>-</u>	9 9	462	67
UPG OUT 323 -323 405 0 127 1350 13 721 0 56 868 1 191 2	(EXP)	0	0	0.9	405	339	1	53	~	<u>-</u>	9.9	462	67
UPG IN 323 0 323 323 405 1755 127 848 13 69 1191 2  RESULT 0 0 -142 323 -61 1755 61 848 3 69 -139 2  HORIZED 0 0 -142 323 -61 1755 61 848 354 2  ERING 0 0 45 302 234 1025 58 789 17 88 354 2  ERING 0 0 45 302 234 1025 58 789 17 88 354 2  ERING 0 0 241 241 302 1239 88 863 14 102 886 2  RESULT 0 0 -106 241 -20 1239 16 863 -3 102 -113 2  RESULT 0 0 2 12 10 43 2 43 0 6 14 14 10 10 10 12 11 14 14 10 10 10 11 11 11 11 11 11 11 11 11 11	UP G OU	23	-32	0	0	.127	S	_	~	0	26	8 6 8	80
RESULT 0 0 -142 323 -61 1755 61 848 3 69 -139 2  HORIZED 0 0 -142 323 -61 1755 61 848 3 69 -139 2  LL 50  ERING 0 0 45 302 234 1025 58 789 17 88 354 2  BFF SULT 0 0 -106 241 241 302 1239 88 663 14 102 886 2  HESULT 0 0 -106 241 -20 1239 16 863 -3 102 -113 2  HESULT 0 0 0 2 12 10 43 2 43 0 6 14 16 10 10 10 10 10 10 10 10 10 10 10 10 10	UPG 1	23		~	323	405	75	12	4	13	69	1611	2995
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ERING         -         0         -         347         -         1259         -         847         -         105         -         2         234         1025         58         789         17         88         354         2         2         2         234         1025         58         789         17         88         354         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         4         3         3         3         4         3         3         4         3         3         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4	-							; ;	:				
SEPS         Q         45         302         234         1025         58         789         17         88         354         2           UPG         OUT         241         302         234         1025         58         789         17         88         354         2           UPG         OUT         241         302         1239         14         775         0         88         645         1           UPG         IN         241         241         201         1239         16         663         14         102         886         2           HESULT         0         0         241         -20         1239         16         663         -13         102         -113         2           HCRIZED         0         0         241         -20         1239         16         663         -3         102         -113         2           HCRIZED         0         0         241         -20         1239         16         663         -14         10         -113         2           LL SI         0         0         2         12         10         439         1         445	TERIN	•	0	•	347	•	1259	•	4	•	105	•	55
UPG OUT 241	SEPS	0	0	45	302	3	1025	58	8	17	89	354	2204
UPG OUT 241 "241 302 0 88 937 14 775 0 88 645 1 UPG IN 241 0 241 241 302 1239 88 663 14 102 886 2  RESULT 0 0 -106 241 -20 1239 16 863 -3 102 -113 2  HORIZED 0 0 2 12 10 43 2 43 0 6 14  EKYP 0 0 0 2 12 10 43 2 43 0 6 14  UPG OUT 10 -10 12 0 4 39 1 42 0 6 14  RESULT 0 0 -4 10 -2 51 1 46 1 7 37  HORIZED 0 -4 10 -2 51 1 46 1 7 37  HORIZED 0 -4 15 -5 54 44 5 56	_	0	0	45	302	3	1025	<b>8</b> 2	8	17	88	354	20
UPG IN 241     0 241     241     302     1239     88     86.3     14     102     886     2       RESULT     0     -106     241     -20     1239     16     86.3     -3     102     -113     2       HORIZED     0     -106     241     -20     1239     16     834     106     -113     2       LL 51     0     0     2     12     10     43     2     43     0     6     14       SEPS     0     0     2     12     10     43     2     43     0     6     14       UPG OUT 10     10     12     10     43     2     43     0     6     14       UPG IN 10     0     10     12     10     43     1     44     1     7     37       RESULT     0     0     4     10     -2     54     44     1     7     -4	UPG OU	*	7	0	0	88	937	<del>-</del>	~	0	88	645	SS
RESULT 0 0 -106 241 -20 1239 16 863 -3 102 -113 2  LL 51  ERING - 0 0 2 12 10 43 2 43 0 6 14  SEPS 0 0 0 2 12 10 43 2 43 0 6 14  UPG OUT 10 -10 12 10 43 2 43 0 6 14  UPG IN 10 0 10 12 51 4 46 1 7 37  RESULT 0 0 -4 10 -2 51 1 46 1 7 -4  FORIZED 0 15 56 44	UPG		0	#	*	0	1239	88	•	<del>-</del>	102	886	7
LL 51  LL 51  ERING  O		•		9			. ~		. 4		102		] <del>]</del>
ERING - 0 - 14 - 53 - 45 - 6 1	T T O S		0		*		0	•	<b>(1)</b>		106		2683
SEPS     0     2     12     10     43     2     43     0     6     1       IEXPI     0     0     2     12     10     43     2     43     0     6     1       UPG OUT 10     10     12     0     4     39     1     42     0     6     1       UPG IN 10     0     10     10     12     51     4     46     1     7     3       RESULT 0     0     -4     10     -2     51     1     46     1     7       HORIZED     0     -4     15     56     44     5	LL 5		•		•		:		•		4	(	-
SEPS     0     0     2     12     10     43     2     43     0     6     1       UPG OUT 10     -10     12     0     4     39     1     42     0     6     1       UPG IN 10     0     10     10     12     51     4     46     1     7     3       RESULT 0     0     -4     10     -2     51     1     46     1     7       HORIZED     0     -4     15     56     44     5	Z Z Z	• (	<b>o</b> (	E (	<b>7</b> (		<b>3</b> (	• (	n (	• (	ο .	• :	D :
LEXP! 0 0 2 12 10 43 2 43 0 6 1 UPG OUT 10 -10 12 0 4 39 1 42 0 6 2 UPG IN 10 0 10 10 12 51 4 46 1 7 3 RESULT 0 0 -4 10 -2 51 1 46 1 7 HORIZED 56 44 55		9	<b>o</b>    -	7	7		2	7	<b>7</b>	>	٥	_	*0
UPG OUT 10 =10 12 0 4 39 1 42 0 6 2 UPG IN 10 0 10 10 12 51 4 46 1 7 3 RESULT 0 0 =4 10 -2 51 1 46 1 7 = HORIZED 0 15 56	(EXP)	0	0	~	13		A D	~	<b>T</b>	0	•	<b>T</b>	104
NPG IN 10 0 10 10 12 51 4 46 1 7 3 RESULT 0 0 =4 10 -2 51 1 46 1 7 = HORIZED 0 15 56 54 54	UP 6	2	_	12	0	<b>T</b>	39	-	45	0	•	27	77
RESULT 0 0 =4 10 =2 51 1 46 1 7 = HORIZED 0 15 56 44 5	UPG	<u>-</u>	0	<u>.</u>	<u> </u>		<b>~</b>	*	4	-	7	37	*
HOR12ED 0 15 56 44		0	0	*	-		5 1	-	2.0	-	7		-
	AUTHORIZED	;	0		15		2		<b>T</b>		s		120

FIGURE 4 (continued)

GRAND TOTAL						:					
ENTERING	•	•	4071	•	18919	•	16538	•	2043	•	42371
- SEPS 0	0	629	4242	3520	15399		15499	283	1760		36900
(EXP) 0	0	629	4242	3520	15399	1039	15499	283	1760		36900
- UPG 0UT3381	-3381		0	1322	14077		15216	0	1760		27672
+ UPG IN 3381	0		3381	4242	18319		16538	283	2043		40281
- XT OUT 0	0	0	3381	12	18307		16537	-	2042	7	40267
• 11 IN O	•	0	3381	12	18319	-	16538	-	2043		40281
	1										•
NET RESULT 0	0	-1490	3381	009-	18319	0	16538	0	2043	-2090	40281
AUTHOR: ZED	0		4871		21208		16538		2043		44660

ENTERING - 0   13   114   5   151   6   42   0   25   24   332   152   0   0   13   114   5   151   6   42   0   25   24   332   25   25   35   25   25   25   2	<b>SKILL 52</b>				•								
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52     0     52     127     39     176     14     55     1     26     158       0     0     127     20     176     7     55     1     26     28       0     0     126     3     77     2     21     0     17     12       0     0     7     59     3     77     2     21     0     17     12       27     -27     20     39     7     70     1     20     0     17     12       27     0     27     66     20     90     7     27     1     18     82       0     0     0     66     10     90     4     27     1     18     15       0     0     66     66     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64     64	- UPG 0UT	25	-52		7.5	7				0	25	106	224
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0     0     127     70     176     7     55     1     26     28       0     0     126     3     126     3     24     29       0     0     7     59     3     77     2     21     0     17     12       27     -27     20     39     7     70     1     20     0     17     12       27     -27     20     39     7     70     1     20     0     17     12       27     0     27     66     20     90     7     27     1     18     82       0     0     0     66     10     90     4     27     1     18     15				*			•	- 1	1	• !		- 1	
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27     -27     20     0     17     12     21     0     17     12       27     -27     20     39     7     70     1     20     0     17     55       27     0     27     66     20     90     7     27     1     18     15       0     0     0     66     10     90     4     27     1     18     15	- SEPS	0	0		5	~		2	;- -			- 2	7 0
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FIGURE 1 (continued)

UT 22 -22 16 46 2 64 9 57 1 32 18 18 17 2 -2 2 10 5 2 64 9 57 1 32 18 18 18 17 2 -2 2 16 74 6 60 2 35 47 2 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 17 2 18 18 18 18 18 18 18 18 18 18 18 18 18	SKILL 54 Entering	•	•	•	5.2	•	*		44	•		•	213
7. 22 -22 16 46 2 64 9 57 1 32 18  7. 22 -22 16 30 6 58 3 54 0 32 47  7. 0 0 0 13 111 6 147 3 32 0 14 22  7. 0 0 0 124 19 172 13 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 15 29  7. 0 0 0 124 19 172 9 44 1 1 15 29  7. 0 0 0 124 19 12 3 3 10 0 3 3 10  7. 0 0 0 2 2 2 2 0 30 0 7 0 3 3 10  7. 0 0 0 2 2 2 2 0 30 0 7 0 3 3 10  7. 0 0 0 2 2 2 2 0 30 0 7 0 3 3 10  7. 0 0 0 2 2 2 2 0 30 0 7 0 3 3 10  7. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		c	•	•	1 4	•	) ;	c	,	•	1 6	•	
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	(EXP)	0	0	=	==	•	147	~	32	0	<del>*</del>	22	304
5  0 5  124 38 172   13 44   1 15 154     1		2	15.	38	73	=======================================	134		7	0	<b>→</b>	103	201
17       0       0       124       19       172       9       44       1       15       29         10       0       0       124       19       172       9       44       1       15       29         10       0       2       22       0       30       7       0       3       21         10       0       2       22       0       30       0       7       0       3       21         11       10       0       14       3       27       0       7       0       3       21         1       10       0       10       24       8       35       3       10       0       3       31         1       0       0       0       24       5       35       3       10       0       3       31         0       0       0       24       5       3       10       0       3       31         0       0       4       36       50       7       43       0       24       11         0       0       4       46       2       41       46       2		5	<b>o</b>	ŝ	124	38	172		\$ T	-	15	154	355
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1       10       0       0       2       22       0       30       7       0       3       21         1       10       0       14       3       27       0       7       0       3       21         1       10       0       10       24       8       35       3       10       0       3       31         1       0       0       24       5       35       3       10       0       3       8         0       0       24       5       35       3       10       0       3       8         0       0       4       36       0       50       7       43       0       24       11       11       11       12       11       11       11       11       11       11       12       24       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44       44			0		24	•	2	•	~	٠	~	•	4
17     10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10     -10		0	0	~	22	0	30	0	^	0	m	7	62
17     10     -10     8     14     3     27     0     3     21       10     0     10     24     8     35     3     10     0     3     31       1     0     0     24     5     35     3     10     0     3     8       1     0     0     24     5     3     3     8     3       0     0     4     36     0     50     7     43     0     24     11     11       1     16     16     10     4     46     2     41     0     24     34     11       1     16     16     10     12     58     4     45     2     26     50     11       1     0     0     40     8     58     -5     2     2     2     5     1       0     0     0     40     8     58     -5     2     2     5     1	(EXP)	0	0	~	22	0	30	0	^	0	m	7	62
10     0     10     24     8     35     3     10     0     3     31       1     0     0     24     5     35     3     10     0     3     8       0     0     24     5     35     3     10     0     3     8       0     0     4     36     0     50     7     43     0     24     11     11       1     16     12     24     4     46     2     41     0     24     34     11       1     16     16     40     12     58     4     45     2     26     50     1       1     0     0     40     8     58     -5     2     2     5     1       0     0     0     40     8     58     -5     2     2     2     5     1	UPG	9	0	∞	<del>-</del>	σ.	27	0	^	0	~	21	7
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17 16 -16 12 24 4 46 2 41 0 24 34 11 1	• SEPS	0	0	<b>-</b> !	36		,	1	£ †	0			153
1   16	(EXP)	0	0	Ŧ	36			7	7	0			153
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	AUTHORIZED		0		<b>9</b>		40		99			ı	159

FIGURE 4 (continued)

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9 62 1 19 1 8 54  1 54 6 35  1 54 6 35  1 64 6 35  1 7 12  1 64 6 3 5  1 7 12  1 8 63 72  1 9 1 8 6  1 9 1 12  1 12  1 13  1 14  1 15  1 15  1 17  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 18  1 1	Ŧ <u></u>
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14	-
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FIGURE 4 (continued)

NTERING	111 6												
23 -23 17 33 23 -23 17 33 24 56 0 0 0 -1 56 11 -11 8 16 11 0 0 2 24 11 -11 8 16 11 27 0 0 0 1 26 15 -15 11 22 15 -15 11 22 16 0 0 1 37 17 99 18 4 99	NTERIN	•	0	•	57	•	70	•	9		<b>60</b>	•	151
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23 -23 17 33 23 0 23 56 23 56 0 0 0 2 24 11 -11 8 16 11 0 0 2 24 11 0 0 1 27 0 0 0 3 33 15 -15 11 22 15 0 0 15 37 0 0 0 1 8 0 0 0 1 9 0 0 0 1 9 0 0 0 1 9 0 0 0 0 0 0 0 0 0 9	(EXP)	0	0	^	20	~	89		5	0	<b>6</b> 0	0	7
23	UPG	23	~	17	33	•	62	0	5	0	<b>6</b> 0	7	9.5
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# UPG OUT 15 "15 11 22  + UPG IN 15 0 15 37  ET RESULT 0 0 1 37  UTHORIZED 0 1 37  WILL 65  WIERPA 0 0 1 8  - UPG OUT 4 4 4 3 5  + UPG IN 4 9 9  ET RESULT 0 0 0 9	(EXP)	0	0	n	33	0	47	0	13	0	0	m	6
ET RESULT 0 0 15 37 UTHORIZED 0 1 37 UTHORIZED 0 1 37 UTHORIZED 0 0 1 8 1 EXP 0 0 1 8 4 UPG IN 4 0 4 3 5 ET RESULT 0 0 0 9	UPG	5	-15	=	22	<b>3</b>	43	_	12	0	0	31	62
ET RESULT 0 0 1 37  WILL 65  WIERING 0 1 8  FEXP 0 0 1 8  FEXP 0 0 1 8  FEXP 0 0 1 8  FEXP 0 0 1 8  FEXP 0 0 0 1 8  FEXP 0 0 0 1 8  FEXP 0 0 0 0 0 1 8  FEXP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UPG	15	0	15	37	-		#	9	-	_	7	108
MILL 65  MIERING  SEPS  OPG OUT  UPG OUT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENENT  TENE	NET RESULT	: c	•	· -	37		t t	! ! ~ !	i	; • ~	· -		
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FIGURE 4 (continued)

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5 361 196 120	

FIGURE 4 (continued)

ENTERING	•	0	•	~	•	163	•	153	٠	95	ŧ	412
s	0	0	0	-	0	153	23	130	•	8	39	37.
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TOO	0	0	0	-	21	132	S.	125	•	8	26	34.7
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<b>z</b>	23	0	23	29	17	117	12	7.5	m	46	7.8	294
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FIGURE 1 (continued)

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ENTERING SERS (EXP) UPG OUT	NET RESULT AUTHORIZED SKILL 75 ENTERING	SEPS (EXP) + UPG OUT	CT AESULATER TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR TO COLOR	NET RESULT AUTHORIZED SKILL 77	ENIEWING - SEPS - (EXP) - UPG OUT	T RES

FIGURE 4 (continued)

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FIGURE 4 (continued)

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(EXP)	0	0	•	45	m	109	1	4	~	9	8	3
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	20	0	20	<b>60</b>	<b>-</b>		12	5	7	45	99	260
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NET RESULT	0	0	o	<b>8</b>	-	=	~		0	42	7	260
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S665 •	O	0	7	23	*	101		8	•	101	25	306
(EXP)	0	0	~	23	<b>.</b>	101	-	80	•	101	52	306
116 011	0	07-	<b>œ</b>	5	12	68		7.8	0	101	33	273
+ UPG IN	0	0	01	25	•	47	12	9.0	m	104	43	316
												* * * * * * * * * * * * * * * * * * * *
NET RESULT	0	0	0	25	8	47	#	9.0	•	104	-15	316
AUTHORIZED	•	0		. 25		611		66		110		'n
SKILL 84	}	1	. 1	ć			(	3	1	7	•	6
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SEP	0	0	3	0	<b>9</b>	<u>.</u>	7 (	7 7	<b></b>	ָרָרָ כְּרָ	r	0 :
(EXP)	0	0	0	0	0	9	m	21	<b></b> ·	25	*	9
	0	0	0	0	~	~	-	20	0	30	~	63
+ UPG IN	0	0	0	0	0	13	~	75	-	3.	•	9
	C						. 2-	22	. 0	- 6	2 7 1 1 1 1	99
AUTHORIZED	•	0	•		i	6	ı	27	•	30		76
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FIGURE 4 (continued)

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HE SULT         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 </td <td>OPG</td> <td>60</td> <td>8</td> <td>9</td> <td></td> <td><b>₹</b></td> <td>34</td> <td>-</td> <td>77</td> <td>0</td> <td>53</td> <td><u>~</u></td> <td>112</td>	OPG	60	8	9		<b>₹</b>	34	-	77	0	53	<u>~</u>	112
RESULT         0         20         2         40         25         -3         54         -1           LL B7         0         0         2         2         40         25         -3         54         -1         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11         11<	UPG 1	<b>40</b>	0	69		•	40	<b>3</b> (	25	- :	5 (	27	139
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New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New   New	<ul><li>SEPS</li></ul>	0	0	7	22	~	44	7	4		31	=	149
UPG OUT 10 -10 7 15 5 42 2 47 0 31 24 1 UPG OUT 10 -10 25 7 49 5 52 2 33 34 1 UPG OUT 10 0 10 25 7 49 -4 52 1 33 -1 UPG OUT 0 0 0 0 0 5 91 31 148 6 112 42 3 UPG OUT 0 0 0 0 0 13 78 7 141 0 112 42 3 UPG OUT 0 0 0 0 0 0 78 13 154 7 119 20 3 UPG OUT 0 0 0 0 0 13 12 8 199 14 93 3 51 38 4 UPG OUT 51 0 0 0 0 0 0 18 12 12 12 12 12 12 12 12 12 12 12 12 12	(EXP)	0	0	7	22	-	47	7	4		3	=	4
UPG IN IO         0         10         25         7         49         5         2         33         34         1           T RESULT         0         0         1         25         1         49         -4         52         1         33         1           THORIZED         0         0         1         24         47         -45         52         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	0 240	01	-	^	- 5	S	45	~	47	0	31	74	125
TRESULT 0 0 1 25 1 49 -4 52 1 33 -1 1 1	UPG	0	0	0 7	25	^	40	S	52	7	33	70	159
THORIZED D 24 47 63 30 16 16 16 17 63 30 16 16 17 8 16 17 8 18 18 18 18 18 18 18 18 18 18 18 18 1		0		-	25		•			-			159
TERING			0				47						191
TERING         96         179         118         23           SEPS         0         0         0         5         91         31         148         6         112         42         35           UPG DUT         0         0         0         0         13         148         6         112         42         35           UPG IN         0         0         0         0         0         112         20         33           UPG IN         0         0         0         0         0         0         112         20         35           TRESULT         0         0         0         0         0         121         20         120         120         44           TRESULT         0         0         0         0         121         20         14         49         420         49           TERING         0         0         13         112         8         199         14         93         351         38         45           EKPS         0         0         13         112         8         199         14         93         351         164         50	KILL 8												
SEPS         0         0         0         9         31         148         6         112         42         35           (EXP)         0         0         0         0         0         13         78         7         141         0         112         42         35           UPG OUT         0         0         0         0         0         13         15         20         13         12         20         33         44         7         119         42         35           THORIZED         0         0         0         0         0         121         20         120         44           THORIZED         0         0         121         20         121         47         49           TERING         0         0         13         112         8         199         14         93         51         49           EKPS         0         0         13         112         8         199         14         93         51         13         44           UPG         10         51         125         38         217         20         109         49         55	NIERIN	ŧ	0	•	a	•	96	•	179	•	8 =	•	393
(EXP)         0         0         0         6         112         42         35           UPG OUT         0         0         0         13         78         7         141         0         112         20         33           UPG OUT         0         0         0         0         0         0         112         20         35           TRESULT         0         0         0         0         0         121         25         154         1         19         20         35           THORIZED         0         0         0         0         121         20         152         44           1LL 89 TERING         0         0         13         112         8         199         14         93         3         51         49           5EPS         0         0         13         112         8         199         14         93         3         51         38         45           UPG OUT         51         51         125         38         217         20         109         4         99         55         164         50           THORIZED         0         0<	SEP	0	0	0	0	ហ	-6	Ē	<del>1</del> 48	•	112	45	351
UPG OUT         0         0         13         78         7         141         0         112         20         33           UPG IN         0         0         0         0         0         78         13         154         7         119         20         35           TRESULT         0         0         0         0         0         121         20         154         1         119         44         44           THORIZED         0         0         0         0         121         20         150         44         44           1LL 89 TERING         0         0         13         112         8         199         14         93         3         51         38         45           1ERING         0         0         13         112         8         199         14         93         3         51         38         45           1ERPS         0         0         13         112         8         199         14         93         3         51         133         45           UPG         1N         51         53         125         38         217         20 <td>(EXP)</td> <td>o</td> <td>0</td> <td>0</td> <td><b>o</b></td> <td>\$</td> <td>16</td> <td>~ ~</td> <td>7 4 8</td> <td>•</td> <td>- 1 5</td> <td>45</td> <td>351</td>	(EXP)	o	0	0	<b>o</b>	\$	16	~ ~	7 4 8	•	- 1 5	45	351
UPG IN         0         0         78         13         154         7         119         20         35           TRESULT         0         0         0         0         0         18         78         -25         154         1         119         -42         35           THORIZED         0         0         0         0         0         121         206         120         44           1LL 89         0         0         13         112         8         199         14         93         3         51         38         45           1ERING         0         0         13         112         8         199         14         93         3         51         38         45           1ERING         0         0         13         112         8         199         14         93         3         51         38         45           1ERPS         0         0         13         112         8         199         14         93         3         51         133         45           1DFG         1N         51         125         38         217         20         109	UPG	0	0	0	0	=	78	7	=======================================	0	112	20	331
T RESULT 0 0 0 0 0 121 25 154 1 119 -42 35 THORIZED 0 1 0 0 0 121 20 44  ILL 89 IERING - 0 13 112 8 199 14 93 3 51 38 45 IERN G 0 0 13 112 8 199 14 93 3 51 38 45 IERN G 0 0 13 112 8 199 14 93 3 51 38 45 IERN G 0 0 13 125 38 217 20 109 4 55 164 50 T RESULT 0 0 0 125 10 217 2 109 155 13 50 THORIZED 0 125 10 217 2 104 53 47	UPG	0	0	0	0		7.8	6-1	154	7	611	20	351
THORIZED 0 121 206 120 444  JLL 89  TERING 0 13 112 8 199 14 93 3 51 38 45  (EXP) 0 0 13 112 8 199 14 93 3 51 38 45  UPG OUT 51 -51 38 74 20 179 4 69 0 51 113 34  UPG 1N 51 0 51 125 38 217 20 109 4 55 164 50  TRESULT 0 0 125 10 217 2 109 1 55 13 50  THORIZED 0 125 10 217 2 109 1 55 13 50	<u> </u>	0	0	0	0	-		~	12	-	611	-42	
ILL 89         TERING       0       13       112       8       199       14       93       3       51       38       45         SEPS       0       0       13       112       8       199       14       93       3       51       38       45         UPG OUT       51       12       38       217       20       109       4       55       164       50         UPG 1N       51       0       51       125       38       217       20       109       4       55       164       50         TRESULT       0       0       0       125       10       217       2       109       1       55       13       50         THORIZED       0       125       192       192       104       53       47	5		0		o				0				
TERING       0       -       125       -       207       -       107       -       54       -       49         SEPS       0       0       13       112       8       199       14       93       3       51       38       45         LPG OUT 51       -51       38       74       20       179       4       89       0       51       113       34         UPG IN       51       0       51       125       38       217       20       109       4       55       164       50         TRESULT       0       0       125       10       217       2       109       1       55       13       50         THORIZED       0       0       125       10       217       2       109       1       53       47	K11L 8	ļ	:			•			•				
SEPS 0 0 13 112 8 199 14 93 3 51 38 45 (EXP) 0 0 13 112 8 199 14 93 3 51 38 45 UPG 0UT 51 -51 38 74 20 179 4 69 0 51 113 34 UPG 1N 51 0 51 125 38 217 20 109 4 55 164 50 0 125 10 217 2 109 1 55 164 50 0 125 10 217 2 109 1 55 13 50 THORIZED 0 125 10 125 104 53 47	NTERIN	•	0	•	125	•	207	•	107	•	5.	•	493
(EXP) 0 0 13 112 8 199 14 93 3 51 38 45 UPG 0UT 51 -51 38 74 20 179 4 69 0 51 113 34 UPG 1N 51 0 51 125 38 217 20 109 4 55 164 50 0 0 125 10 217 2 109 1 55 13 50 THORIZED 0 125 10 125 104 77	- SEP	0	0	-	112	<b>6</b> 0	199	<b>-</b>	93	m	2 1	38	<b>4</b> 55
UPG OUT 51 -51 38 74 20 179 4 69 0 51 113 34 UPG 1N 51 0 51 125 38 217 20 109 4 55 164 50 0 51 185 10 109 109 109 109 109 109 109 109 109	(EXP)	0	0	13	112	<b>6</b> 0	661	<u>*</u>	93	~	5	38	455
UPG 1N 51 0 51 125 38 217 20 109 4 55 164 50	UPG	<u>.</u>	S	38	7 4		179	7	8	0	5.	£ = 1	342
T RESULT 0 0 125 10 217 2 109 1 55 13 5 140R12E0 0 125 192 104 53 4	0 P G 1	2	0	51	125		217	20	109	<b>T</b>	5.5	191	506
THORIZED 0 125 192 104 53 4			٥	0	125			2	601	~	5.5	67	506
	7		0		125		•		104		53		474

FIGURE 4 (continued)

SKILL 90	,		1			-	ć	1	<b>=</b>	•	- 7
NTER ING	•	•	0	•	-	•	7	,	• ( • :		
			0	~	78	•	<b>4</b>	-	) F	2 :	
(EXP)			0	~	78	•	<b>9</b>	_	9	2 :	* •
101	0	0	0	=	67	7	₹ ₹	0	0	~ :	- S
OPG IN	0		0	0	19	=	52	~	4.2	C	7 ( )
				E .		• • •			;	-	
HET RESULT (	0 - 10	0	0	7	67	m	ក ហ		7 :	2	r 6
AUTHORIZED	0	_	0		102		7		) F		-
SKILL 91							9	1	u	•	4
NIERING			0	•	~	•	- 1		וה	•	7 :
			ø	0	<u>-</u>	7	~	0	n :	7	7
(EXB)	0	0	0	0	<u>6</u>	~	~	0	ហ ប	~ :	- (
בחכ			0	~	9	-	•	0	Δ.	•	37
2			0	0	91	M	<u>-</u>		•	7	<b>-</b>
			1 2 2 1	* * * * * *							
NET RESULT	0	0	0		91	0	<u>-</u>	_	•	2.	·
AUTHORIZED	<b>5</b>		0		23		21	:	<b>र</b> ;		2. 20
GRAND TOTAL				:	ì		ı		:		:
FINTERING		•	1527	ŧ	3320	•	2111	•	777	•	1019
7 7 6 6 6 6	0	158	1369	115	3205	278	1833	73	1370	624	1111
0 2 4 7	,		1369	115	3205	278	1833	7.3	1370	624	7777
	-42		606	351	2854	73	1760	0	1370	1514	6263
+ UPG 1N 624	<b>.</b>		1527	997	3320	351	2111	7.3	1443	2138	1018
		1			1 1		,				1 3
	٥	0 0	1527	0	3320	0	2111	0	7 :	2	7 C C
AUTHORIZED	_	0	. 1527		3320		2111		F + 1		1 C + 9

FIGURE 5: Sl Year 2 Inventory

# . . . SCENARIO SI - "STEADY STATE" . . .

SKILL 1 TO SI ENTERING POPULATION AND SEPARATIONS FOR YEAR 2

46	LEVEL NO•	1 5	LEVEL No.	3	LEVEL NO+	5 \$	LEVEL NO.	7 \$	LEVEL NO+	, 9 \$	TOTAL NO.	L s
1	٥	0.	0	0.	0	Q •		- O •	0	Q • .	0	٥.
2	0	0.	48711	00.	0	0•	0	0.	0	0 •	4871	11.5
3	0	0.	0	0.	3433	18.1	0	0 •	0	0.	3433	8 . 1
4	0	٥.	0	0.	4482	23•7	0	0.	0	0 •	4482	10.6
5	0	0.	. 0	0•	2809	14.8	0	0•	0	0 •	2809	6 • 6
•	0	0.	0	0•	2127	11+2	1.4	0.0	0	0•	2141	5.1
7	0	0.	0	0.	1964	10+4	176	1 • 1	0	0•	2140	5.1
8	0	0.	٥	0.	1446	7 • 6	377	2 • 3	0	0 •	1823	4.3
9	0	0.	0	0•	1070	5+7	526	3.2	0	0 •	1596	3.8
10	0	0.	0	0•	720	3 . 8	725	4 • 4	C	0•	1445	3 • 4
11	0	0.	0	0.	305	1 . 6 .	. 1274	_7.7	0	0.	1579	3.7
12	0	0.	0	0.	0	8.	1565	9.5	0	0 •	1565	3.7
13	0	0.		.0 •		• 0	1354	_8.2_	0_	. 0 •	1354	3.2
14	0	0.	0	0•	104	0.5	1408	8.5	2	0 • 1	1514	3.6
15	0	0•	0	0.	71	0 • 4	1350	6.2	8	0 • 4	1429	3.4
14	0	0.	0	0.	96	0 . 5	1327	8.0	18	0.9	1441	3.4
17	0	0.	0	G •	71	0 • 4	1308	7 • 9	45	2 • 2	1424	3.4
18	0	0•	0	0 •	77	0 • 4	1323	8 • 0	85	4 • 2	1485	3.5
19	. 0_	O •	0	.0		_0.5_	1317.	_8.0_	_ 129	6 • 3	. 1521	3.6
20	0	0.	0	0•	67	0 • 4	1157	7.0	191	9 • 3	1415	3.3
21	0	0.	. 0	0•	2	0.0	633	3.8	244	11.9	879	2 • 1
22	0	0•	0	0 •	0	0•	226	1 • 4	298	14.6	524	1.2
23	0	0.	C	0.	0	0•	174	1 • 1	253	12.4	427	1.0
24	0	0.	0	0•	0	0•	88	0.5	177	8 • 7	265	0.6
25 .	0_	0.	0	0 •		_0•	191	0 • 9	162	7•9	303	0.7
26	0	0•	0	0.	0	0•	48	0.3	149	7 • 3	197	0.5
27	0	0•	0	Q •	0	0•	27	0 • 2	. 93	4 • 6	120	0.3
28	0	0.	0	0.	٥	<b>0</b> •	0	0•	88	4 • 3	88	0.2
29	0	0•	0	0•	0	0•	. 0	0 •	59	2 • 9	59	0.1
30	0	0•	0	0.	Q	0 •	0	0•	42	2 • 1	42	0.1
•		• • • •			_*							
TOTAL	0	0•	4871	11.5	18919	44•7	16538	39.0	2043	4 • 8	42371	100•
- SEPS	0	0.	629	12.9	3520	18+6	1039	6.3	283	13.9	5471	12.9
PRJCTN	0	٥.	4242	87.1	15399	81.4	15499	93.7	1740	86+1	36900	87.1

#### . . . SCENARIO SI - "STEADY STATE" . . .

SKILL 52 TO TI ENTERING POPULATION AND SEPARATIONS FOR YEAR 2

											•	
	LEVEL	1	LEVEL	. 3	LEVEL	. 5	LEVEL	. 7	LEVEL	. 9	TOTA	L
YG	NO.	8	NO.	*	NO+	\$	NO.	8	NO.	*	110 .	\$
1	0	0.	0		0	٥.	0		0	0•	0	0.
2	0	0•	888	58.2	٥	0•	0	0•	0	0•	888	10.6
3	0	0.	34	2.2	٥	0 •	0	0 •	0	0•	34	0.4
4	0	0.	605	39.6	166	5 • 0	0	0•	0		771	9 • Z
5	0	0•	O	C •		20•7	. 0	0•	0	0•	687	8 • 2
6	0	0•	0				0	-	0		592	7.0
7	. 0	0.	0	0 •	503	15.2	0	0•	0	_0• _	_ 503	6.0
•	0	0•	Ω	0.	415	12.5	0	0•	0		415	4.9
9	0	0.	Ŏ	0 •	462	13.9	2	0.0	0	0•	464	5.5
10	0	0.	0	0.	394	11.9	0	0 •	0		394	4.7
11	0	0.	0	0•	. 93	2 • 8	205	_ 9•7	0	. 0•	298	3.5
12	0	0.	0	0.	0	0•	198	9.4	0	0 •	198	2 . 4
13	_ 0.	Q +	0	_0 •	8_	0 • 2	316_	15.0		0	324	3.9
14	0	0.	0		0	0.	379	18.0	0		379	4.5
15	0	٥.	. 0	0 •	. G	3•	337	16.0	0		337	4.0
16	0	0.	0		0	0 •	313	14.8	14	1.0	327	3.9
17	0	0.	0	Q •	0	G •	105	5.0	65		170	2.0
18	0	0.	0	0.	٥	0•	90	4.3	107	7 • 4	197	2.3
19	0_	_ 0, _	0_	0•	0_	0 •	86	_4.1_	142	9.8	228	2.7
20	0	0.	0	0.	0	0•	80	3.8	176	12.2	256	3.0
21	0	0.	0	0 •	0	0•	0	0•	207	14.3	207	2.5
22	0	0.	0	Q •	0	G +	0	0.	191	13.2	191	2.3
23 .	0	0.	0	0.	0	0 •	0	0 •	159	11.0	159	1.9
24	0	0.	٥	0.	0		0	0•	109	7 • 6	109	1.3
25	0	0.	0	.0•	0	_0•	0	0.	77	5.3	77	0.9
26	0	0.	0	0.	0	U •	u	13 0	60	4 • 2	60	0.7
27	0	0.	0	0.	0	0•	0	0•	. 68	4 • 7	68	0.8
28	0	0.	0	0•	0	0 •	0	0.	30	2 • 1	30	0.4
29	0	0.	0		. 0	0•	_ 0	0•	28	1.9	- 28	0.3
30	0	0.	0	0 •	0	0 •	٥		10	0.7	10	0.1
TOTAL	0	0•	1527	18.2	3320	39+5	2111	25 • 1	1443	17.2	8401	100.
• SEPS	0	٥.	150	10.3	115	3.6	278	13.2	73	5 • i		7.4
- 3573			130		113	273	4/0			3 T I	047	
				-	-							
PRJCTN	Q	0.	1367	89.7	3205	74+5	1833	86.8	1370	7449	7777	72.6

FIGURE 6: S1 Inventory for Years 3-5

#### . . . SCENARIO SI - "STEADY STATE" . . .

SKILL 1 TO 51 ENTERING POPULATION AND SEPARATIONS FOR YEAR 3

76	LEVEL	1	LEVEL No.		LEVEL	5	LEVEL NO.		LEVEL		TOTA	L
_				-		-		-		-	.,,,,	-
1	0	0.	0	0.	0	٥.	0	0•	٥	0.	0	0.
2	0	٥.	338110	00.	0	0 •	0	Q •	0	0 •	3381	8 • 4
3	0	0.	0	0 •	4242	23•2	0	0•	0	0 •	4242	10.5
4	0	0.	0	0•	2849	15.6	0	0•	0	0•	2849	7 • 1
5	0	0.	0	0.	2693		0	0.	0	0•	2693	6.7
•	Q	0•	a	0.	2447		18	0 • 1	0	0•	2465	6 • 1
7	0	0.	0	0•	1968	10.7	_ 27		0	0 •	1995	5,0
8	0	0.	0	0•	1670	9 • 1	220	1.3	0	0•	1890	4.7
9	٥	0•	0	0•	1222	6 • 7	411	2.5	0	0•	1633	4 • 1
10	0	0.	0	0•	831	4 • 5	680	4 • 1	0	0•	1511	3.8
11	Q	0.	a	0.	2	0.0	1395	8 . 4	0	0•	1397	3.5
12	0	0.	0	0.	0	Q •	1559	9 • 4	0	0•	1559	3.9
13	0	٥.	_ 0	0 •	0	.0+.	1450	.8.8	0	0.	1450	3.6
14	0	0.	0	0•	0	0 •	1341	8 • 1	0	C •	1341	3.3
15	0	٥.	0	0 •	67	0 • 4	1432	8 • 7	2	0 • 1	1501	3.7
14	Q	Q.	O		61	0 • 3	1353	8 • 2	8	0 • 4	1422	3.5
17	0	0.	0	0 •	78	0 • 4	1311	7.9	18	0 • 9	1407	3.5
18	0	0.	0	0•	63	0 • 3	1309	7 • 9	45	2 • 2	1417	3.5
19 _	0	_0.			70_	_0•4		_8.0	91	4 • 5	1483	3.7
20	0	0.	0	0•	54	0 • 3	1315	a • 0	131	6 • 4	1502	3.7
21	G	G.	0	0.	0	D •	623	3.8	213	10.4	836	2 • 1
22	0	0.	0	0•	0	0 •	299	1 . 8	345	16.9	644	1.6
23 .	0	0.	0	0•	. 0	0 •	85	0 • 5	348	17.0	433	1 • 1
24	0	0•	0	0•	0	0•	100	0 • 6		10+6	316	0.8
25	0	0∙		0 •	0	.0.	82	. 0.5	159	7 • 8	241	0.6
24	Q	0.	a	0.	0	0.	134	0.8	150	7 • 3	284	0.7
27	Q	0•	0	0 •	0	0•	45	0.3	- 102	5 • 0	.147	0.4
28	0	0.	0	0•	0	0 •	27	0.2	78	3 • 8	105	0.3
29	0	0.	0	0 •	0	0•	0	0•	78	3 . 8	, 78	0.2
30	0	0.	0	0.	0	-	0	0.	59	2.9	59	0.1
TOTAL	0	0.	3381	8.4	18319			41.1	2043	5+1	40281	
	0	۸.	426		101*	11.4	1004	4 . 4		40.4		
• SEPS		0.	439	13.0	303/	10.0	1096	6.6	315	15+4	480/	12.1
PRJCTN	<u>_</u>	- 0.	2942	87.0	15282	83.4	15442	73.4	1728	84.6	35374	87.9

. . . SCENARIO SI - "STEADY STATE" . . .

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 3

Y <b>G</b>	LEVEL NO.	1 5	LEVEL NO•	_	LEVEL NO•		LEVEL		LEVEL NO.		TOTA	L S
1	0	٥.	0	0+	0	٠.	0	. 0 •	0	0+	0	0.
2	0	0.		40.9	0	0 •	0	0.	0	0 •	624	7 • 4
3	0	۰.0		57.3			. 0	0 •	0	0.	875	10.4
4	0	0.		1.8	7	0 • 2	0	0 •	0	-	34	0.4
5	0	0.	1	0.0		18.8	0		0		626	7.5
•	0	0•	٥	0•	679	20 • 5	0	0.	0	0•	679	8.1
7	. 0	0.	, 0			16.7	0	.0•	0	.0•	554	6.6
8	0	0.	0	• •	482	1405	0	Е	0	0•	482	5.7
9	0	٥.	0	0 •		12.3	. 2	0.0	0	0•	412	4.9
10	0	٥.	Ō	0•	458	13.8	2	0.0	0	0•	460	5.5
11	٥	٥.	0	0.	105	3 • 2	_ 287	13.6	, 0	0•	392	4 . 7
12	0	0.	0	0+	0	_		12.6	0	0•	267	3 • Z
13	. 0	_0•_	0		0_	0 •	198	_9.4.	0	. 0•	198	2 • 4
14	0	0.	٥	0.	0	0•			0		313	3.7
15	O	0•	0	0 •	0	0•	375	17.8	0	0•	375	4.5
14	0	0.	0	0•	0	0 •	333	15.8	ŧ	0.0	334	4.0
17	٥	٠.0	0	n •	0	0 •	98	4.6	8 1	5 • 6	179	2.1
18	0	0.	ō	0•	0	0•	60	2.8	70	4.9	130	1.5
19	0		0.	0 •	0	0.	9.0	4 • 3	107		197	2.3
20	0	٥.	C	0.	0	<b>D</b> •	86	4 • 1	142		228	2.7
21	0	0•	0	0 •	0	0 •	0	0•	176	12.2	176	2 • 1
22	0	0•	0	0 •	G	0 •	0	0.		14.3	206	
23	0	0.	0	0 •	0	0•	Ö	0.	191	13.2	191	2.3
24	0	0.	0	_	0	0•	0	0•	151		151	1.8
25	. 0	0.	0	0•	. 0	0.	0	0•	96	6.7	96	1 • 1
24	0	0.	0	0•	0	D •	U	0 •		4 • 4	63	0.7
27	0	0•	0		0	0•			59	4 - 1	59	0.7
28	0	0.	э		0		Ö	0•	42		42	0.5
29	0		0	• •	0	_	0	0•	30			0.4
30	0	0.	0	0.	. 0	0.	0	0.	28	_1.9	28	0.3
TOTAL	0	0•	1527	18.2	3320	39•5	2111	25+1	1443	17•2	8401	100.
• SEPS	0	. 0 •	33	.2.2	121	_316	290	13,7	98	8 66_	542	5
PRUCTN	ō	۰.	1494	97.Ā	3199	76.4	1821	86.3	1345	93.2	7851	13.5

. . . SCENARIO SI - "STEADY STATE" . . .

SKILL I TO SE ENTERING POPULATION AND SEPARATIONS FOR YEAR 4

<b>7</b> G	LEVEL	i	LEVEL	3	LEVEL	5	LEVEL	7	LEVEL NO.	9 5 ·	TOTA	L
	1100	•		•		•		•		_	.,,,,	
i	0	٥.	c	٥.	α	0.	. 0	0.	٥	0.	0	0.
ż	ō	0.	33811		ŏ		ŏ	0 •	Ŏ	ō.	3381	8.7
3	0	0.	0	0.	2942	17+5	0	0 •	G	0.	2942	7 . 6
4	0	0.	0	_	3524	21.0	0	0•	0	0•	3524	9.1
5	0	0.	0	0.	1712	10.2	0	0 •	0	0+	1712	4 . 4
6	0	0.	0	0 •	2347	14.0	18	0 • 1	۵	0.	2365	6.1
7	0	0.	. 0		2258	13.4	35	0 . 2	0	0 •	2293	5.9
8	0	0.	0		1671	9 • 9	73	0.4	0	0.	1744	4.5
9	0	0.	0	-	1404	8 • 4	271	1 . 6	0	0•	1675	4 . 3
10	0	0.	O		681	4 + 1	860	5 • 2	Q	0 •	1541	4.0
11	0	0•	0	0 •	2	0.0	1452	8.8	٥	0•	1454	3.7
12	0	G•	0	0 •	0	0 •	1386	8.4	0	0.	1386	3.6
13	0	0.	0 _	0.	0		1446_	8 . 7	0 -	0 -	_ 1446	3.7
14	0	0.	0	0 •	0	0 •	1437	8.7	0	0•	1437	3.7
15	0	0 •	0	0 •	0	0 •	1328	8 . 0	0	G •	1328	3.4
16	0	0.	0	0+	55	0+3	1437	8 • 7	2	0 • 1	1494	3.9
17	0	0•	0	0 •	44	0 • 3	1337	8 • 1	8	0 • 4	1389	3.6
18	0	0.	0	O •	68	0 • 4	1314	7.9	18	0.9	1400	3.6
19	0	0 •	0	٥٠.	55	.0.3	1308	7 • 9	52	2 • 5	1415	3.6
20	Q	0.	0	0.	48	0.3	1322	8.0	94	4 • 6	1464	3.8
21	0	0.	0	0 •	0	0•	712	4.3	172	8 • 4	884	2 • 3
22	0	0.	0	0.	0	0 •	279	1.7	332	16.3	611	1.6
23.	0	0.	0	0 •	0	0•	129	0.8	396	19.4	525	1 • 4
24	0	0.	٥		0	<b>0</b> •	39	0 • 2	290	14.2	329	0 . 8
25	0	0 •	0	0•	0	0•	91	0.6	196	9 • 6	287	0 • 7
26	0	0.	Đ	0.	0	ø.	80	0.5	147		227	0.6
27	0	0.	0	0 •	0	0 •	112	0.7	103	5 • 0	215 132 95	0 • 6
28	0	0.	٥	0.	0	0+	45	0.3	87	4 • 3	. 132	0.3
29	0	0•	0	0 •	0	0.	27	0.2	68	3.3	95	0 • 2
30	0	0.	0	0.	0	0 •	0	0•	78	3.8	78	0.2
**		••••						····.				
TOTAL	0	0 •	3381	8.7	16813	43•4	16538	42.7	2043	5 • 3	38775	100.
- SEPS	0		439	13.0			1113			17+1		12.4
*****							****				,	
PRJCTN	0	0•	2942	87.0	13820	82.2	15425	93.3	1493	82.7	33880	87.4

#### * . . SCENARIO SI - "STEADY STATE" . . .

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 4

YG	LEVEL	1 %	HEVEL	3	LEVEL NO•	5	LEVEL	. 7	LEVEL NO.		TOTA NO.	L S
1	٥	٥.	0	٥.	c	٥.	O.	0.	3	0•	0	c.
2	Q	0.	542		0	0 •	0	0.	ō	0.	542	6.5
3	۵	0.	618	40.5	0	٥٠	. 0	0•	0	0 •	618	7.4
4	٥	0.	367	24.0	482	14.5	0	0.	0	0 •	849	10.1
5	. 0	٥.	0	0.	34	1.0	0	Q .	0.	0•	34	0.4
6	٥	0•	0	0 •	619	18 . 6	0.		0	0•	619	7 • 4
7	0	0.	_ 0 _	0 •	632	19.0.	0.	0 •	0	_ 0•	632	7.5
8	٥	٥.	0	0 •		16.0	0	0.	0	0•	532	6.3
9	0	0.	0	0 •	476	14.3	2	0.0	0	0 •	478	5.7
10	0	0.	0	O• '		12.3	2	0.0	٥	0•	410	4.9
11	0	0.	0	0•	137	4 • 1	. 320	15.2	. 0	0 •	457	5 . 4
12	0	0.	0	0 •	0	0 •	353	16.7	G	0•	353	4 . 2
13 .	_ 0	_0.	0_	_0 •		_0	265.	_12.6_		_0•	265	. 3.2
14	٥	0.	0	0 •	0	0 •	198	9.4	a	0•	198	2.4
15	Q	Q.	0	0.	0	<b>8</b> •	_ 310	14.7	. 0	0 •	310	3.7
16	٥	٥.	G	0 •	G	0 •	369	17.5	2	0 • 1	371	4 . 4
17	0	٥.	0	0.	0	0•	68	4,2	89	6 • 2	177	2.1
18	0	0•	0	0 •	0	0 •	54	2.6	8 9	6 • 2	143	1.7
19	0	G•	0	.0•	0 _	_0 •	60.	2.8_		4 . 9	130	1.5
20	0	٥.	C	0•	0	0 •	90	4.3	107	7 • 4	197	2.3
21	0	0•	0	0•	C	0 •	0	0•	142	9 • 8	142	1.7
22	0	٥.	0	0 •	0	0•	0	0 •	-	12.2	176	2.1
23 -	0	<b>G</b> •	0	0•	, , 0	0•	_ 0	0.		14.2	205	2 • 4
24	0	٥.	0	0•	0	0 •	0	0 •	_	12.6	182	2.2
25	0	٥.,	0	0• _	0	0•	0	0 •	133	9 • 2	133	1 • 6
26	0	G.	0	0•	0	Ó٠	0	0•	80	5 • 5	80	1.0
27	0	0•	C	0 •	0	0•	0	0•	. 62	4 • 3	62	0.7
28	0	۰.0	0	0 •	0	0 •	0	0•	35	2 • 4	35	0.4
29	0	0 •	0	0•	0	0 •	0	0•	41	_	41	0.5
30	0	0. 	0	0•	0	0.	0	0.	30	2 • 1	30	0.4
TOTAL	0	٥.	1527	18.2	3320	39+5	2111	25.1	1443	17.2	8401	100.
• SEPS	0	0.	109	7+1	139	4+2	307	14.5	119	8 • 2	674	8.0
PRJCTN		0.	1418	92.9	3181	95.8	1804	85.5	1324	91.8	7727	92.0

. . . SCENARIO SI - "STEADY STATE" . . .

SKILL I TO SI ENTERING POPULATION AND SEPARATIONS FOR YEAR S

YG	LEVEL	. 1	LEVEL	-	LEVEL		LEVEL		LEVEL NO.	, 9 \$	TOTA	\L \$
	_	_			_							_
1	0	٥.	0		0	_	0	0.	0		0	0.
2	0	0•	33811		0	-	0	0•	0	-	3381	9 • [
3	0	0.	0	0•	2942	-	0	0 •	0	-	2942	7.9
•	0	0.	0		2439			•	0	_	2439	6.5
5	0	0•	0	•	2118		0		0	_	2118	5.7
•	0	0.	0				19.		0	_	1502	4.0
7	0	0.	0		2100	14.2	_ 36 _	0+4 .			2202	5,9
8	0	0•	0	0•	1923 1376	12.0	85	0.5	0	_	2008	5.4
9	0	0•	0					0.9	0		1530	4 • 1
10	0	0•	0		680		889		0		1569	4 • 2
11	0	0•	. 0	0+	3 .				0		1493	4 • 0
12	0	0•	0	0•	0	0•	1442	8 • 7		0 •	1442	3.9
13	0						1286.					3.5
14	0	٥.	0	-	0	0•	1433	g • 7	0	0 •	1433	3 . 8
15	0	0.	0	-	0	0 •			Ō		1424	3.8
16	0		0	-	0	٥٠_	1321	8.0	0	0•		3.5
17	0		0	-	38	0 • 2	1418		2	0 • 1	1458	3.9
18	0	0.	0		35	0 • 2	1339	B • 1	8	0 • 4	1382	3.7
19	0				57_				27			3.8
20	0	0•	0	• .	39	0 • 3		7.9			1403	3.8
21	0	_	0	_	0		708		151		859	2.3
22	0	-	0	-	0	0.	325	2.0	308	15.1	633 496	1.7
23.	0	0•	0		0	0 •	103	0.6				1.3
24	0	0.	0	0 •	0	0 •	66	0 • 4	333	16.3		1 • 1
25	0	0.		0•	0		35	0.2	. 255		290	0.a
26	0	0.	0	-	0	0 •		0.5	179		268	0 • 7
27	0		0		0	0 •	69 112	0.4	99	4 • 8	168	0.5
28	0	-	0	0 •	0	0 •		0 • 7	88	4 • 3	200	C.5
29	0		0						77			0.3
30		0•	0	٥.	0	0•	27	0 • 2	68	3 • 3	95	0.3
			`			****						
TOTAL	0	0•	3381	9 • 1	15299	41-1	16538	44.4	2043	5 • 5	37261	100.
. SEPS	1490	30.6	439	13.0	2552	16.7	1137	6.9	342	16.7	5960	16.0
•			*****					****		~		
PRJCTN	0	0.	2942	87.0	12747	83+3	15401	93.1	1701	83.3	31301	84.0

. . . SCENARIO SI - "STEADY STATE" . . .

SKILL 52 TO 91 ENTERING POPULATION AND SEPARATIONS FOR YEAR 5

	LEVEL	. 1	LEVEL	. 3	LEVEL	. s	LEVEL	. 7	LEVEL	. 9	TOTA	L
YG	NO .	×	NO.	*	NO.	\$	NO.	*	NO.	× .	NO •	*
1	0	0.	o	0.	0	0+ .	0	0.	3	0•	0	0.
2	0	0•		38.9		0•	0	0•	3	0 •	542	6 . 6
3	0	0•		38.5	0	0 •	. 0	O •	9	0 •	537	6.5
4	0	0.		22.6	285		0	0 •	3	0•	600	7.3
5	G	<b>0</b> •	1	0.0		23 • 0	0	O •	3	C+	763	9 • 2
•	0	٥.	0	<b>D</b> •	34	1+0		. 0•	0	0 •	34	0 • 4
7	0	0•	. 0			17.3	0	_ 0•	0	<b>0•</b>	574	6.9
8	0	0•		0 •		18 • 1	0		0		602	7 • 3
9	0		0	0 •	_ 526	15.8	2,	0.0		0•	528	6.4
10	G	-	0			14.2	3	0 • 1	9	0 •	474	5.7
11	0	-	0		66	2 • 0			0		408	4.9
12	0		0	0•	0				0		401	4 • 8
13 _		_ 0+	<u>·</u> _0		0	0•	35 L	_16•6_	3.	0 •		4 • 2
14	0	0.	O		0	0•		12.5	3	0 •	263	3.2
15	0		. 0	0 •	<b>0</b>		198	9.4	3	٥.		2 • 4
16	0		0	0.		0 •			3	0 • 2		3.7
17	0		0		0	_	92		105	7 • 3	197	2.4
18	0		0	-	Q	-	42			7•0	143	1.7
19	0		0	۰		0 •			ر ۶		143	1 • 7
20	0	0•	Œ	0 •	0	n •	60		70		130	1 . 6
21	٥		G	•	0		0	0.	107		107	1 • 3
22	0		. 0		a		0	0•	142	9 • 8	142	1.7
23-	0		0	-		0 •	0	0•	-	12.2		2 • 1
24 .	0		0		0		0	0•		13.5	-	
25	0	.0.	0				0	0•	159	11.0		1.9
26	0		0	_	Q	0.•	0		107		107	1.3
27	0		0	0•	0	0.	0	0•		5 • 3	76	0.9
28	0		ō	0 •	U	Ų V	0	0.	36	_	36	0.4
29	0		ō		, 0	0•	0		35		35	0.4
30	0	0.	0	0.	0	0.	0	0.	41	2 • 8	41	0.5
TOTAL	0	0.	1395	16.9	3320	40+1	2111	25.5	1443	17.5	8269	100.
• 5EPS	648	42.4	91	6.5	67				141	9 • 8	1195	14.5
PRJCTH	0	0.	1304	93.5	3251	97.9	1865	88.3	1302	90 • 2	7074	85.5

^{***} PRCHOTION FAILURE INTO LEVEL 3 REQ= 679 ELIGIBLES 624

FIGURE 7: S1 Year-End Strength for Year 1

* * * SCENARIO SI - "STEADY STATE" * * *
AUTHORIZATION(A) VS* YEAR END STRENGTHIB) FOR YEAR 1

CATEGORY	→ <del>1</del>	SKILLS! Vel 3	LEVE	ر د د	LEVE	i. 7	LEVE	6 1	101	T A L		u
SKL	- 1 V	B (X)	4	B (%)	Y	B (X)	Y	B (x)	V	) g		TOTAL B
_	•	9(100)	22	2(10	<u>۔</u>	30( 97)		21.1	7.1	_	76	0
7	12	111 921.	21	1 1 10	¥	6 18	- 12	0	4	7 (		•
~	7.	14(100)	67	59(88	165	156 1951	28	01)8	274	) (	941	2.0
17	•	(001)9	25	4 6	-	01)9	0	(•••)0	47	9		•
89	•	6001)6	7.3	2 ( 8	2	5(10	0	•	137	7 (		•
61	•	600116	40	6 19	1 2	7(10	60	0 :	9 4	-		9.0
70	7	711001	132	8 190	9	8 ( 10	Ŧ	5(125)	7	) 90		•
21	7.5	77(103)	338	8 10	81 1	88110	28	0110	622	3 (		•
22	9.0	90(100)	708	8 106	1 63	5 9		0	8	631		10.5
23	-	1001)1	7	0 : 0	-	0 = 0	0	( • • • ) 0	17	711		0.1
24	-	1(100)	<b>6</b> 0	8	1	0	0	1 • • • ) 0	20			0.2
25	7	211001	so.	(12	1	2110	0	:	6-	- 0		0.2
27	290	29411011	1730	8 1 1 8	108	01110	7 6	0119	0	151		23.0
28	24	27(113)	162	7 ( 8	1 12	4110	23	0 : )	331	=		•
	171	1751102)	1192	9 140	1 89	96(10	191	6 16	~	34(		•
30	58	57( 98)	2 T C	961 8	1 24	50(10	0	:	*	071		
~~	m	3(100)	21	6 16	1 2	25,10	40	6 19	8	3		•
32	119	120(101)		6 140	1 25	63(10	33	34(103)	847	21(		
33	195	192( 98)	1151	8 8	1 50	8 ( 10	96	21 9	S	-		•
36	77	77(100)	366	221 8	7 24	47 ( 10	61	[]3	0	169	95)	2 • 5
4 8	5.4	55(102)	43	62(144	1 28	6 169	33	4-	-	420(1)		3 • 2
51	1 5	14( 93)	26	31 9	_	S ( 10	<b>S</b>	911201	120	8	981	•
	1 1 1			***************************************	t t t t			, , , , , ,			•	•
TOTAL	123B	1247(101)	6952	98 )6009	1 4987	5024(101)	662	659(100)	13839	12939(	931	100•0

FIGURE 7 (continued).

(ATEG(	CATEGORY 2 SKILLS!	KILLSI									
	٦.٦	CVEL 3	LEV	EL 5	151	LEVEL 7	LEVEL	٠, ٩	TOTAL	LAL	PCT OF
: KL	1 - V - 1	R	Y	(X)8	Y	B (X)	Y	B (8)	V	(X)8	TOTAL B
3"	355	352( 99)	541	611(113	1 559	549( 98)	95	891 941	1550	1601(103	
<b>v</b>	19	19(100)	28	261 93	44	44(100)	7	2(100)	93	86 ) 16	-
•	151	151(100)	483	46 ) hSt	_	558( 97)	90	86 96)	1297	_	
^	23	2311001	67	46 ) 69	95	92(	17	18(106)	202	_	2.5
<b>©</b>	<del>1</del> 9	63( 98)	151	152(101	_	197 ( 98)	31	31 (100)	418	443( 99	_
•	31	32(103)	155	_	151	149(	20	22(110)	357	339 ( 95	
<u>-</u>	67	1001129	8 ° 9	5251 82	_	5481 99)	7	44(107)	1299	_	15.2
<b>-</b>	0	(•••)0	91	121 75	-	30(	0	1000	47	_	_
13	30		212	1791 84	1 212	2101	15	18(120)	469	_	
13	76	1001192	439	3791 86	~	390(	9	56( 931	696	9011 93	_
<del>*</del>	9 1	1001)91	5.9	54 6 92	_	216	0		124	_	. ~
16	38	371 971	217	1871 86	_	1991	2 1	23(110)	476	_	. ~
76	11	7911031	=======================================	358( 87	_	293(	25	27(108)	803	7571 94	_
	1 1 1				* * * *						*
TOTAL	447	946(100)	3417	31361 92	1 3353	3310( 99)	417	418(100)	<b>8134</b>	7810( 96)	_

FIGURE 7 (continued) ?

PCT OF	TOTAL B	* • -	5 • 5	2 • 7	5.5	5 • 5	2 • 8	7.7	2.7	3 • 2	13.9	9.0	2 • 5	15.8	7.0	14.5	11.8		100.0		100.0
	(x)	911	196	951	971	98	987	95)	64)	93)	951	91)	971	196	4	95	951	,	951		156
TOTAL	• • B • •	<u>-</u>	53		1 1 8	119	09	166	5791	69	300	13	S	347	152	313	2559(		216431		423921
10	Y									4			546			29	•		22687		44660
د و	B (X)	3(11	5 ( 10	51( 93)	8110	6 )8	5112	[]	4112	01)	0110	6(120)	31(100)	14311011	194( 92)	66(102)	105 6 991		962(100)		2039(100)
73,37	Y	21	24	52	36	19	12	32		25	128	ഹ	3	142	210	65	106		196		2043
۰	·-B · · (%)	631 9	26(10	319( 96)	30110	119	78110	60(10	0110	46110	6 ) 46	6 16	1 8 ( 1	6 19	421 9	01	847(102)	* * * * * * * * * *	820111001		1001)56591
LE V	V	167	2	332	7	~	~	*	~	~	~	63	219	1426	~	726	~	1 1 1	8198		16538
	( × )	801	92)	949	616	97)	921	88	861	86)	901	77)	64)	92)	919	69)	901		106		891
بر د	8	_	_		*	8		S		57	~			143	45	18161			97721		188171
רנ ני	- V - 0	3.48	237	175	909	501	340	996	322	417	1361	7	223	1568	664	2042	1396	1 1	10839		21208
1115;	0-B (X)	9(113)	65(100)	51(100)	1601)591	1871102)	95(103)	214(100)	57(106)	66(100)	346(100)	2(100)	74(101)	430(100)	135(104)	465(100)	347(100)				4901(101)
CATEGORY 3 SKILLS LEVEL 3	V	00	9.5	5	159	# 00	9.2	214	. ru	99	345	7	7.3	430	130	4 4 4	7 7 6		2688		1184
CATEGO	3,41	15.	: 37°	35	37	3.8	36	0	. T	* 2	- Z-	7	. <del></del> .	40	4.7	**	5.0		TOTAL		GRAND

FIGURE 7 (continued)

CATEGORY	RY I SKI LEVEL	1115;	1 6 4	<b>.</b>		7	LEVEL	6- 1	T01AL	1 *	PCT OF
5KL	· · V · ·	B (%)	# 1 V - 1	8 (%)	V	B (X)	· · ·	B (X)	V	B (X)	TOTAL B
25	126	1341106	1 126	156(124)	38	48(1	74	25(104)	314	363(116)	10.3
53	99	26 149	9	110	1.	3112	91	=	164	4(11	5 • 2
54	5.3	55(104	5	6112	7.4	8	31	33(106)	211	220(1041	6.3
55	124	1181 95	1 12	=	26	34(131)	13	12( 92)	286	317(111)	0.6
56	74	241100	1 2	30(130)	'n	+	m	3(100)	55	=	9 • 1
21	40	40(100	7		95	8 10	23	24(104)	159	164(103)	4.7
5.8	7	_	±	112	15	=======================================		_	101	115(107)	3.3
54	4.5	_	7	5(12	~	٥ -	•	7(117)	138	143(104)	4.1
09	32	192	1 28	7:1		2619	*	5(1	9.2	Ξ	2.7
19	34	28   82		(12	80	12(150)	7	4(100)	80	87(109)	5 • 5
62	57	98 164	. 5	0113	01	1091191	œ	8(100)	129	143(111)	4 • 1
63	26	221 85	1 2	32(128)	01	13(130)	0	( • • • ) 0	79	67(110)	6.1
7 9	37	7 (		7 ( )	6	13(144)	0	(•••)0	82	Ξ	2.6
6.5	٠	_		12(133)	2	3(150)	0	10000	20	23(115)	0.7
99	30	24(	1 27	6113	6	12(133)	M	3(10	69	5 ( 10	2 • 1
7.2	177	9	385			6 16	201	_	1032	2 ( 9	28.3
7.3	5.7	96 199	113	116(103)	78	771 9	7	46(105)	292	294(101)	# <b>6</b>
7 8	0	••• -	61 1	15(79)	27	8 -	30	31(103)	76	711 931	2 • 0
	1 1 1										•
TOTAL	186	9161 93	1245	1433(115)	724	741(102)	417	418(100)	3367	3508(104)	100.0

FIGURE 7 (continued).

CATEGORY	~ .	וררצו						;		•		•		90
ž	11 4 5	ָר פּיני פּיני	5	L C V E	. ל. מינו		L C V C	-		B (K)			_	TOTAL B
		3	9 2 1	Υ `				) 	K	31.15	4	736.4	021	9.6
. 4		37.6		. כ					1 ~		-	2261		•
9 9	- U	117		146	3.4.5	9 0	2 6	97.10	120	1.8( 98)	752			. ~
		;		י ע ס ס					•	0 2 0	١ <	-		•
	<del>-</del> (		2 .	٠ د	٠ .			7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			,			
9/	•		-					-		01.7	4	17		•
8 5	33	29(	881	142				0	69	۰ -		9		•
							ŧ			1 5 6	ŧ	ŧ		1
TOTAL	167	148(	891	199	705(	88	480	481(100)		6 ) 6	73	1623(	931	0
405547	,, ,	=												
9		֡֝֜֝֜֜֜֝֜֝֓֜֝֝֓֜֝֓֜֝֝֡֓֓֓֓֡֝֝֡֓֜֝֟֝֓֓֓֡֝֡֜֜֝֡֓֜֝֡֓֜֝֡֡֓֡֝֡֡֜֝֡֡֡֜֝֡		LEVE	ب		w	د	لما	ن ه	101	۸L	_	PCT OF
SKL			( % )	1	-8-		Y	<b>*</b>	Y	-B (X	Y	8	_	OTA
		0	•	8-	15(	831				_	~	201	156	9•0
7.4		23(1	(001	127				5(10		2110	7	32(	196	•
7.5	\$0	7	88	108				5 ( 10		3 ( 9	8	19(	971	•
11	1						34	0 - 1	25	26(104)	123	<b>~</b>	1 + 6	3.7
7.8	2.5	221	851	46				7 ( 10		6 10	~	15 (	941	•
7.9			•	20				115		2110	~	25(	196	•
90	31	261	84)				9	0		8 9	282	9 (	951	•
	0	0	•	-				110		0!)	-	1961	(00	•
			85)	113				9119		2110	S	21(	981	•
		25(1	(00)	119				4 1 4		7 9	S	31(	941	•
9 69	20	171	851	35				5110	Ŋ	7 9	~	37(	166	÷
		24(1	100	47				9 19		2(10	•	09	184	•
			•	121			0	791 8		6 10	*	95 (	18)	;
	125	1196	95)	192				010		4 ( 10	474	711	33)	•
		• 10		102				2(11		1110	æ	75 (	93)	•
16	0	•	•	23	201		7	6 16	7	112	4. 69	_ _	121	•
	1 1 1		:				1	1 1	•		ŀ		•	
TOTAL	379	348(	921_	1276	1187	93)	404	7.	734	732(100)	3296	31540	196	0.001
•														
TOTAL	1527	14121	921	3320	3325(100	1001	2111	21091100)	1443	1439(100)	8401	82851 9	161	100.0

FIGURE 8: S1 PCS Reports for Years 1-4

* SC VAPIO SI - "STEADY SIATE" + + +

1 YOM SEILL 1 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL	
1.1.12 A = C GHUS	4071	3672	276	79	6.1	8102	
	1 10	<b>O</b>	• :	7	7)	4083	
FOM SCHOOL	0	3429	10	0	~	3441	
: F V Y	ລ	243	259	62	<del>+</del> = = = = = = = = = = = = = = = = = = =	578	
JYEE SEAS TO CONUS	0	924	3487	2688	594	1697	
IC SCHOOL	0	0	0	0	0	0	
POTATION	0	924	3481	2681	590	7676	
JIMER	0	0	4	7	37	1.7	
CORUS TO OVERSEAS	C	646	2997	2585	585	7116	
FEON SCHOOL	0	150	0	0	0	0.51	
LEVY	0	199	2997	2585	585	9959	
OVERSEAS TO OVERSEAS	0	0	0	0	0	0	
•		1 1 1 1 1 1				1 8 8 8 8 8 8	
J	4071	5545	6760	5337	1198	22911	

CASTERIATE FOR YEAR 1

FIGURE 8 (continued)

c

5 10

FRIM SELEL

197 106 90 1 2 46 244 272 16 256 715 0 0 TOTAL 24 0 24 0 20--0 47 5 LEVFL 7 0000 ---1 0 6 0 106 1.5 V E 1 LEVEL S 85 8 0 96 cooo181 0 LFVEL 3 8 9 O 26 26 0 164 0 LEVFL 106 106 0 0000 106 0 OVERSEAS TO OVERSEAS OVERSEAS TO CONUS TO SCHOOL ROTATION CUNUS TO UVERSEAS FROM SCHOOL LEVY FROM SCHOOL INTRA-COMUS TO SCHOOL CIHER 1010L

FIGURE 8 (continued).

0 1

45 -

3379 Œ TOTAL LEVEL 9 LFVEI 7 1 1 1 1 1 1 1 LEVEL 5 . . . . . . . . . LEVEL 3 1 / 9 LEVFL 1 O OVERSEAS IN OVERSEAS COMUS TO OVERSEAS FROM SCHOOL SVERSEAS TO CONUS TO SCHOOL FLOM SCHOOL 14. THA # CONUS RETATION DIMER LEVY Livy 7.101

FIGURE 8 (continued)

FE 131 SKILL 52 TO 91

TOTAL	1528	638	186	1356	1341	15	1311	79	1249		4195
LEVEL 9	m 0	С	er er	237	235	7	235	0	235	0	475
LFVEL 7	8 8 0	0	33	339	332	7	325	0	325	0	169
LEVEL 5	80 34 CO		83	527	521	•	492	0	492	0	1103
LEVEL 3	704	637	67	253	253	0	259	79	197	0	l
rever 1	704	0	0	00	0	0	00	<b>-</b>	0	A S 0	7.04
	INT SAMCONUS TO SCHOOL	FROM SCHOOL	۲. د د د	OVERSEAS TO CONUS	ROTATION	OTHER	CONUS TO UVERSEAS	FEUR SCHOOL	L F V <b>Y</b>	JVERSEAS TO OVERSEA	Total

FIGURE 8 (continued)

PLS REPORTS FOR YEAR 2

FROM SEILL 1 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LFVEL 7	LEVEL 9	TOTAL
INTRA-CONUS	3993	2997	337	86	32	7445
10 SCH00L	3993	0	9	-	-	4001
FROM SCHOOL	0	2922	1.7	-	0	2940
LEVY	٥	75	314	4 80	3.1	504
OVERSEAS TO CONUS	0	372	2500	1917	564	5053
10 SCH00L	D	0	0	0	0	0
RUTATION	0	368	2481	1161	259	6105
OTHER	0	3"	61	•	រវា	34
CONUS TO OVERSEAS	Э	1035	2061	1813	276	5185
FROM SCHOOL	0	523	0	0	0	523
LEVY	0	512	2061	1813	276	4662
OVERSEAS TO OVERSEAS	0	0	0	0	a	С
TeiaL	3993	1 1077	4898	9188	572	17683

FIGURE 8 (continued)

FROM SKILLI 6 TO 6

	LEVEL 1	LEVEL 3	LEVEL 5	LFVEL 7	LEVEL 9	TOTAL
INTRA-CORUS	104	82	00	٥٥	~ 5	881
FROM SCHOOL	, o	8 2	00	0	0	82
LEVY	C	0	0	0	7	7
OVERSEAS TO CONUS	00	<u>-</u>	09	86	•	175
RUTATION	0	o ~	52	9. 10.	o 6	163
OTHER	0	<b>3</b>	60	0	0	12
CONUS TO OVERSEAS	0	37	89	95	7	202
FROM SCHOOL	0	23	0	0	0	23
LEVY	0	<del>†</del>	89	95	7	184
OVFRSEAS TO OVERSEAS	0	0	0	0	0	0
TOTAL	104	130	128	061	& -	570

FIGURE 8 (continued)

FEGE SELE 1 70 51

ן ר כ י כ ר	LEVEL 3 LEVEL 5 LFVEL 7	7 LEVEL 7	10126
3386 3386	2548 276 47 0 6	7 19	6276
C	2512 12	- 0	3394
0	36 258 45	5 18	357
00	239 2202 1749	153	4343
0	235 2191 1749	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2017
0		£ 0	8-
<u> </u>	199 1790 1649	163	# C
<b>5</b> 0	0		35.8
•	6491 0671 144	163	4043
0	0 0	0	
3386	3586 4268 3445	3.3	0.051

FIGURE 8 (continued)

FOR SKILL 52 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TUTAL
AND SA-CONUS	209	449	19	39	13	1169
LO SCHOOL	607	0	0	0	0	607
FROM SCHOOL	0	014	'n	0	D	415
LEVY	0	34	95	39	13	147
OVERSEAS IN CONUS	0	133	298	168	111	710
TO SCHOOL	0	0	0	0	0	
HOTATION	0	133	290	162	109	669
OTHER	0	0	æ	•	2	16
COMUS TO UVERSEAS	0	236	271	164	113	784
FROM SCHOOL	0	165	0	0	0	165
LEVY	0	7.1	271	164	113	619
NESTAS TO OVERSFAS	0	0		0	C	
lotal	607	818	630	371	237	2663

FIGURE 8 (continued)

TERPOSES FOR YEAR 3

1 0M SKIEL 1 TO 91

TOTAL	7144	2891	+0+	8909	0	6037	31	6341	515	5826	0	19553
revel 9	27	0	27	415	0	404	٥	451	0	451	0	693
LFVEL 7	72		7.0	7330	0	7322	<b>5</b> 0	2272	0	1272	0	
LEVEL 5	300	m	296	2921	0	2911	01	2632	0	2632	0	
LEVEL 3	2898	2887	7 7	402	0	348	7	986	515	471	0	4286
LEVEL 1	3847	0	0	0	0		0	0	0	0	0 5	3847
	IN:RA-CONUS	FROM SCHOOL	LEVY	OVERSEAS TO CONUS	10 SCHOOL	ROTATION	OTHER	CONUS 10 OVERSEAS	FROM SCHOOL	LEVY	OVERSEAS TO OVERSEAS	

FIGURE 8 (continued)

TRUA SKILL 6 10 6

101AL	210 105 105 0	201	237 0 237	0 4 9
FVEL 9	0000	12 0 10 2	6 C C C C C C C C C C C C C C C C C C C	0
LFVEL 7	0000	108	108	216
LEVEL 5	0000	65 61 4	86 0 86	0
LEVEL 3	105 0 105 0	2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 30	0
LEVEL 1	105 105 0	2003	000	105
	16144-CONUS TO SCHOOL FROM SCHOOL LFYY	OVERSEAS TO CONUS TO SCHOOL ROTATION OTHER	CONUS TO OVERSEAS FROM SCHOOL LEVY	OVERSEAS TO OVERSEAS

FIGHRE 8 (continued) ?

TA 1 SELL 1 10 51

LEV	LEVEL 1 LEVEL 3	LEVEL 5	LFVEL 7	revel 9	TOTAL
3379	2458	238	7	16	6132
0-	0	-		=	1 2 7 7
С	2456		••••	<b>D</b>	2450
С	2	236	39	9 1	293
0	237	2520	2090	247	5094
c	0	0	0	0	0
0	233	2514	2090	242	5079
0	4	9	0	ស	5 7
c	726	2221	2020	259	5226
0	4 40	0	0	0	() + +
0	286	2221	2020	259	4786
0	0	0	1	C	(i)
3379	3421	4979	4151		•

FIGURE 8 (continued)

FRUM SKILL 52 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LEVEL 7	LEVEL 9	TOTAL
INTAACONUS TO SCHOOL	468 468	1 1 0 0	62	31		1012
FROM SCHOOL	0	431	7	0	0	2 T
LF VY	0	6	09	31	11	111
CVERSEAS TO CONUS TO SCHOOL	00	165	401 0	240	168	474
ROTATION OTHER	۵ ٥	165	397	232	164	958 16
COMUS TO OVERSEAS FROM SCHOOL	00	260	117	252	192	1115
LEVY	O	185	411	252	192	1040
UVEMSEAS TO OVERSEAS	0	0 1	0	0	0 1	0
70721.	468	865	874	523	371	3101

FIGURE 8 (continued)

DESCRIBERT FOR YEAR 4

7 PM SAILL 1 TO 91

	LEVFL 1	LEVEL 3	LEVEL 5	LFVEL 7	rever 9	TOFAL
INTEACONUS	3684	2833	334	76	49	7254
10 SCH00L	3684	0	0	<b>3</b>	. 0	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
FFOM SCHOOL	0	2807	3	<b>*</b>	0	2817
I F V Y	0	24	330	89	49	124
OVERSEAS TO CONUS	0	478	2778	2309	427	7000
TO SCHOOL	0	0	0	0		<b>1</b>
ROTATION	0	406	2766	2300	419	5951
OTHER	0	12	1.2	0	, ec	1
CONUS TO OVERSEAS	0	901	2525	2246	4 8 7	0.130
FRON SCHOOL	0	564	0	0		) () () ()
LEVY	0	337	2525	2246	458	5566
OVERSEAS TO OVERSEAS	0	0	0	0	0	C
i	1 1 1 1 1 1 1	? ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !			:	: : : : : : : : : : : : : : : : : : : :
TOTAL.	3684	4212	5637	"431	934	R01161

FIGURE 8 (continued)

•

6 10

FROM SKILL

210 105 105 204 194 10 254 254 668 TOTAL 0000 13 23 ¢. LEVEL LEVEL 7 0000 107 0 107 107 107 LEVEL 5 67 8 159 0000 0 0 89 0 LEVEL 3 , , , , , , , 105 0 105 350 152 0 LEVEL 1 105 105 0000 0 OVERSEAS TO OVERSEAS CONUS TO UVERSEAS FROM SCHOOL OVERSEAS IN CONUS TO SCHOOL FPON SCHOOL BUTHA-CONUS TO SCHOOL ROTATION OTHER LEVY LEVY 1011L

0

PIGHRE 8 (continued)

15 01 1 TO 21

TOTAL	6111 3350 2429 332	4983 U 4961	22	1 T T T T T T T T T T T T T T T T T T T	16121	
FVFL 9	27 0 0 27	246 0 239	7 7	2 6 2		
1.5761 7	3 2 3 3 3 3 3 3	2072	1 000	0000	1117	
LEVEL S	274 0 0	2392 0 2388	4 6	0 0	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LEVEL 3	2428 0 2425 3	272 0 262	10	0 th th 10 th =	3328	
LEVEL 1	3346 3346 0	000	, ,	000	AS 0 3346	
	14.MA-CONUS ID SCHOOL FPOM SCHOOL	OVERSEAS TO CONUS TO SCHOOL POTATION	OTHER COURBERAC	FROM SCHOOL	AS TO OVERSE	

FIGURE 8 (continued)

FROM SKILL 52 TO 91

	LEVEL 1	LEVEL 3	LEVEL 5	LFVEL 7	LEVEL 9	TOTAL
INTERACONUS	338	405	09	40	22	865
COURTS OF	338	0	0	0	<b>ɔ</b>	3.58
TOOK WOOD	0	384	<b>3</b> *	0	0	388
LEVY	. 0	21	95	40	22	139
OVERSEAS TO CONUS	0	20.6	386	236	181	1009
TO SCHOOL	c c	204	378	228	081	066
OTHER	0 0	7	60	<b>6</b> 0	-	61
CONUS TO OVERSEAS	0	273	393	244	61	1103
FROM SCHOOL LEVY	00	203	393	244	£61	1033
OVERSEAS TO OVERSEAS	0 8	! ! ! !	0	0 1		
101AL	338	884	639	520	396	2977

FIGURE 9: S1 Assignment Model Projections for Year 1

. . . SCENARIO SI - "STEADY STATE" .

TOTAL RPOOL 483 573 Ξ 15 36 PERIOD I PROJECTIONS FOR SKILL 32 32 BASE - ROTATEES LEVEL 3 Init, Supply * ROTATEES NEW SUPPLY DEMAND LEVEL S Init. Supply AUTHOR: ZED ----------AUTHOR: ZED DEMAND LEVIL 7 Injt. Supply 1 1 1 1 1 1 1 1 1 1 1 NEW SUPPLY - ROTATEES NEW SUPPLY AUTHOR12ED DEHAND IDS STATUS - UPG 0VT * UPG 114 TOS STATUS • UPG 1N TOS STATUS - SEPS - SEPS

FIGURE 9 (continued):

BASE	_			•	ø	•	1	•	•	0.	-	7	7	=	<u>s</u>	•		TOTAL	RFOOL
INITO SUPPLY	0	0	•	4	-	•	 	9	•	9	•	•	•	•	•	•	•	96	t !
	0	0		0	0	٥	0	0	0	0	0	0	0	0	o,	0	0	<b>-</b>	1
NI SAN +			-		0	0	0	0	•	0	0	0	0	0	0	0	0	<b>-</b>	
TOS STATUS	10	, G	; ; ;	֖֡֝֟֝֞֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֓֡֓֡֓֡֓֡	-	-		 	, –			1		•	•	•			
NEW SUPPLY	0	0	•	•	•	•	•	•	•	•	۰	١	•	-0	9	9	•	0	9
AUTHOR12ED	0	0	•	9	9	•	•	•	•	•	•	•	•	4	•	•	•	90	
DEMAND		0	-					0		•									
LEVEL 3		!	!	!	-					:	:	•	!	!	:		!	: :	1 .
INIT. SUPPLY	្ន		•	•	•	•	۰	0.7	0	01	01	0 9	0	•	•	•	-	1.	
OVS VLNRBLTY	•	10.0	0.03	0000	2000	0.09	2000	0.00	0.0	6060	60.0	600	010	•	•	•	1	<b>:</b>	
- LEVY OUT	0	0	0		· :			0	0	0	0 (	0 (	0	0 (	0 (	0 (		<b>.</b>	
+ ROTATEES	o :	0	٠ 	-	0	0	0	0	5	o .	<b>ວ</b> (	<b>3</b> (	0	<b>.</b>	0	٠ د		•	-
+ LEVY IN	<b>a</b> (	0 (	0 (	0 0	۰ د	۰,	۰ ۵	۰ م	۰ م	o -	o -	o -	۵.	- 0	- 0	<b>-</b> c	(	•	
• TT IN	0 !	o	0 1	<b>3</b> (	7		- 1 4	-! -! }	-	- :	- !	• !	- :	2	•	1			
TOS STATUS	0	0	*	*	*	7	*	4	s	<b>.</b>	S	S	S	•	•			!	
NEW SUPPLY	0	_ !	=	•	10	=	-	=	=	=	=	=	=	2	-	2	<u>-</u>	159	0
AUTHOR ( ZEO+	0		-	-11-		=	=	=			=	=	= -	0	0	- 1	-	162	i
DEHAND		0		. ~	-	0		0					0	0					
2										( 		!			İ		•		
INIT. SUPPLY	0	~	-	7	32	32	33	32	32	32	32	32	32	Ē	30	36	30	475	۰
DVS VLNRBLTY	•	0.00 0.0	60.0	0.08	0.09	0.09	60.0	60.0	40.0	0.09	60.0	0.09	0.0				į	~ '	0
- LEVY DUT	0	0	-	0		_	-	-	-	-	0	9 (	0	0	0	۰ ر		~ '	
+ ROTATEES	0	o	7	_   	_'		0	_		- 	0	0	o :	0	0		į	- ·	
· LEVY IN	0	a	٥			0	٥	٥	0	٥	0	0 1	0	- !	7	7		7	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	:	-			-		-	1 -	=	- a	- -	- 8	8	1 6	•				
ELE CUBBLY	<b>3</b> C			32		3 2	32	35	35	. ñ	75	32	32	32	32	Ċ	2	2 48	2
AUTHOR! ZED.			32	32	32	32	32	32	32	32	7	32	32	22	32	e i	~	48.	en 1
	•		•	1	1	1	•	•	•	1									

רנאנר ז									-										
INIT. SUPPLY	0	~	37	38	9	80	•	38. 38	8	38	æ	38	80	96	36	\$	35	. 563	}
OVS VLNRBLTY 0. 0.00 0.	•	00.0	90.0	0.08	60.0	60.0	60.0	0.09	60.0	0.09	0.09 0.09	0.09	0.0	•	•	•	٠	•	
- LFVY OUT	0	0	0	٥	-	-	-	-	-	-	-	-	-	0	0	0	0	<u>~</u>	
. ROTATEES	0	0	-	0	-	-	-	-	-	-	-	-	0	0	0	•	0	۰	
0 NI ANT +	0	0	0	0	0	اه	ا ا	0	o'	0	o 	0	0	~	7	~	۰ ا	•	1
		•	;	£	1	£	•	•	•		•		1	•	1	•	•	,	
TOS STATUS	0	-	8	6-1	8	8	18	9		1.8	8	81	8	•	•	•	•	ļ	t
<b>&gt;</b>	0	_	38	38	38	38	38	38	98	38	38	38	37	38	36	38	38	573	0
AUTHORIZED.	0	-	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	573	!
4 2 6 7 6 1 1 9 2 1 8 4	:	!	•		1		1	\$ E 1	1 1 3	=	•	•	•	:	!	F 5	:	:	
DEMANO	0	0	0	0	0	0	0	0	0	0	إه	0	_	0	0	0	0	1	
		1	!			i											:	•	
LEVEL 9 NO CHANGE	9 2	CHAN	GF	!											!			. †	[

1 35/48	N	-	*	<b>un</b> -	-•		<b>a</b>	•	01		13	ET	13 1, 14 , 15 ,	- 15	91	. 17	4 5 6 7 8 9 10 ,11 12 ,13 ,14 ,15 ,16 ,17 ,TOTAL, RPOOL	700 L
INIT. SUPPLY 0	- : :	=	•	101	=		=	1.	=	=	=		01	10	10	10	1 9 10 11 11 11 11 11 11 10 10 10 10 159	!
- SEPS - 0	0		0	0	0	0	0	0		9	0	0	0	0	0	0	1	
- ROTATEES 0	0	0	0	0	0	٥	<b>o</b>	0	0	0	0	0	-	-	<b>-</b>	-	<b>-</b>	
. UPG 0UT . 0	0	<b>o</b>	0	0			- - :	<b>-</b>	<b>-</b>	0	0	0	0	0	0	<b>o</b> :	v	,
***	1	•		;	:	•		:	1	:		1		i i	!	:		
TOS STATUS 0	0	•	2	9	- 6	•	5	S	ស	•	•	•	•	e	•	• i		
NEW SUPPLY 0	-	0	•	2	<u>°</u>	2	<u>-</u>	0	0	=	=	=	•	٠	۰	•	6 × T	•
AUTHORIZED 0_	-	10	0	0	9	10	10	10	10	10	10	10	10	10	- 10	- 10	151	{
•	•	:			:			-						-		\$ \$		
DEMANDOO	0	0	-	0.1	-0	0	0	0	0-11	- - 1	-		1	- · ·	7	_	0 1 0 0 1 0 1 0 1 0 1 2 1 1 1 1 1 2 2	ĺ

				-		1		12.			
•	482	_	7	•	<b>v</b>			469	463		<b>*</b>
1	32 32 32 482	0	7	0	5 0 0 0	•	•	2.8	32		1 1 1 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1
•	32	0	~	0	0		ı	29	32	,	7
	32	0	•	0	0		•	29	32	i i	<b>n</b>
	32 12 32	0	~	0		6 6 8	-	30	32	:	<b>7</b>
	۲۲	٥	<b>o</b>	o -	0	•	18	32	, 32	:	o -
	32	0	0	• • •	0	E E	<del>0</del>	32	. 32	•	0
•	32	0	0	0	0		9	32	32		0
	<u>-</u>	0 -	0	0	-		6	. 32	. 32		o -
	32	0	0	0	-		20	. 33	32		7.
	32 32 32 31 32	0	0	-	<del>-</del>	-	<u>6</u>	. 32	. 32		• :
-	32	0	0	_	<b>-</b>		. 19	32	32		0
!	32 32 32 32	-	٥	0	<del>-</del>		1 9	32	32		0
!	32	_	٥	0	0	5	18	1	32		-
1	32	_	0	0	0	•	17	= = =	32		-
	32	-	0	a	0	:	17	31	32		_
	~	0	0	9	0	1	-	-	-	1	0
	0	0	0		0		0	0	0	•	0
LEVEL 5	INIT. SUPPLY	- SEPS	- ROTATEES	100 PG 001	+ UPG IN	***	TOS STATUS	NEW SUPPLY	AUTHORIZED		DEMAND

FIGURE 9 (continued):

TOTAL RPOOL 2 00 0.09 2 00.0 010 010 10.08 0.00 PERIOD 2 PROJECTIONS FOR SKILL 0.08 10.0 LEVEL 7 INIT. SUPPLY BASE **AUTHOR12ED** - ROTATEES NEW SUPPLY LEVEL 9 INITO SUPPLY - ROTATEES AUTHOR 1 ZED DEHAND NEW SUPPLY AUTHOR12ED DEMANO INIT. SUPPLY OVS VLHRBLTY NEW SUPPLY + ROTATEES DEHAND . LEVY OUT + UPG IN · LEVY IN JOS STATUS + UPG 1N TOS STATUS TOS STATUS - SEPS

FIGURE 9 (continued)

		i '		i		1			ì										
OVS VLARBLTY	ċ	0.00 00.0	90.0	0.0	90.0	80.0	0.08	0.08	0.08	0.08	0.09	0.0	•	•	•			_	0
LEVY OUT	0	0	-	-		i	-	-	<b>-</b>	<b>-</b>	~	-		0	0	•		_	
ROTATEES	0	0	7	7	~			-	0	-	7	0		0	0				
· LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	7	m	~	7	12	•
	:		1	!	:	:	:	:	; ;	; !	1	•	i	† †	1	•	;		
TOS STATUS	0	-	19	_	20	20	20	207	N	20	20	8	-	• '	•	•		!	
MEW SUPPLY	0	~	32	32	32	32	32	32	32	32	32	=	~	32	32		, n	₹	0
AUTHORIZED®	0	~	32	32	32	32	32	32	32	32	32	32	m	32	32	32	~		)
B 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		:	;	1	;	1	! !· !		:	!		•	•				1	*	
DEHAND .	٥	•	0	•	0	o' :	0	0	<b>a</b>	0	0	-	-	0	0	-	i	7	İ
	•																		
INIT. SUPPLY	0	-	37	37	<b>'</b> a		38	39	38	38	96	38	37	 	35	35		558	
OVS VLNRBLTY	:	00.0	0.09	0.09	0.09	60.0	0.09	0.09	60.0	60.0	0.09	0.09	0.09	•	•	•	•	: -	_
LEVY. DUT	0	0	7	~	-					_			,		0	0			
ROTATEES	0	0	~	~	-			0	-	-	-	_		0	0	0			
LEVY IN	0	0	0	0	0	· o	0		0	0	a	0		· ~	· ~	-		-	
105 STATUS		-	21.	212	20	20	200	20		100			1 =	•	1		1 1		
NEW SUPPLY	0	- ~	9	3.8	0		3.0		9	8	9	9			8.0	8		5,	•
AUTHORIZED.	0	· m	38	38	38		38	8	98	90	80	9 6		9 6	8	18	י י	2.5	- - - -
	•	1		!	1	٠	;	7	!	!		1	٠	!			•		
DEMAND	•	0	<b>o</b>	<b>o</b>			0	0	•		0	0		•		0			
LEVEL 9			' u	-	1	-	•		•	-	•								
OVS VINERITY			0.07	0.0	0	0	6		• • •	0 0			٥٥	n ı	n (	n 1		• -	
- LFVY 0VT	0	c	}	,	; -	} -		•	•	•	5	2	•						
ROTATEFS	0	0	-	_	; <b></b> :	. <b>-</b>					0	0	;	;	;			• <b>•</b>	:
* 1.5 VY 112	0	۵	0	0	2		0	0	0	0	0	0	0	-	-	-	-	•	
	1	1	:	Į.	:	:	:	1	;								•		
TOS STATUS	0	٥	σ.	<b>.</b>			7	c	٣	~	~	~	~	•	.'	•	•		
NEM SUPPLY	0	0	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	40	
AUTHORIZED.	۵	0	•	9	4	•	۰	•	•	4	•	•	۰	•	•	•	•	06	•
	:	:	:	1 1	:	•	1	•	;	:	•			:		:	•		

FIGURE 9 (continued)

PERIOD 3 PROJECTIONS FOR SKILL 6

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PERIOD A PROJECTIONS FOR SKILL

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FIGURE 9 (continued)

PERIOD 4 PROJECTIONS FOR SKILL &

BASE LEVEL 3		NO_CHANGE	<b></b>	• !		•	~	•	•	2	=	2	2	13 14	5	•	-	17 TOTAL	RPOOL
LEVEL S INITA SUPPLY	0 0	3,	32	32	32	32	32	32	32.	32	32	30	7	32	32	32	32	180	
TOS STATUS		- i -	-	=	2	2	2			2	2	2		-		- 	2		
NEW SUPPLY 0		, .,	32	32	7 7	32	32	32	32	32	32	30	32	31	32	31	30	475	4
DEHAND 0 0 0	0	0 0 (	0	0	0	0	0	0	-	0	0	2	-	-		! -	~	. 20	
LEVEL 7 INJT. SUPPLY	0		38	3.6	3.8	36	198	38	38	96	86	37	7	38	38	38	3.6	570	
TOS STATUS		<b>-</b>	2	2	2 2	2	2 : 5	2	2 : 0				2:2	-  : '	7:	7	7: '	7	
NEW SUPPLY AUTHORIZED	00	77	900	98	98	38	8 6	38	38	38	38	37	36	38	3.6	36	36	563	~
DEMAND	0	0			9	9		0	0			-				17	. 7		
LEVEL. 9 NO. CHANGE	NO	CHANG												ı			•		

FIGURE 9 (continued)

PERIOD 4 PROJECTIONS FOR SKILL &

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• LEVY 004	<b>.</b>	<b>.</b>	<b>.</b>	٠.	<b>-</b> .	<b>3</b>	<b>&gt;</b> (	<b>o</b> (	<b>-</b>	<b>-</b>		<b>-</b> (	<b>-</b> (	<b>&gt;</b> 1	<b>,</b>	<b>o</b> (	<b>,</b>	۰,	
* ROTATEES		0		-:		0	0		<b>D</b> (	0	<b>→</b> '	<b>&gt;</b> (	0	<b>o</b> .	0	٠.	<b>o</b> (		:
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NEW SUPPLY	0		7	32	32	32	32	32	32	32	32	7	30	32	32	32	32	480	0
AUTHOR 1 ZED*		9	~	32	32	32	32	32	32	32	32	32	32	32	32	32	32	483	
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OF TANO	>	- -	<b>.</b>	2	3	>	>	•	•	•	•	• .	4	2	9	•	•	•	
LEVEL 7		1		}					1	!	! . !	!	i		! !	! !			
	0		œ	38	38	38	98	9	3	38	9	3/	36	37	. 36	36	36	563	1
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- LEVY OUT	0	0	0	_	_	_		<u>-</u>	_	0	0	0		0	0	0	<u>۔</u>	7.	i
+ ROTATEES	0	0	0	-			-	-	-	۵	0	-	0	0	0	0	0	^	
+ LEVY 1N	0	0	0	0	0	0	0	0		0	0	0	0 1		2	7	. 2	<u></u>	
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TOS STATUS	0	7	O	21	7	77	21	21	7 2 1	70	. 20	70	- 1	• !		•	<b>.</b>	1	
NEW SUPPLY	0		•	38	3.8	38	38	38	9	38	38	38	35	38	38	38	38	570	0
AUTHORIZED.	<u>.</u>	3	60	38	36	38	38	36	38	38	38	98	38	38	96	38	3.8	573	
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DEMAND	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	ا	-	

FIGURE 9 (continued)

PERIOD S PROJECTIONS FOR SKILL &

INITA SUPPLY																				
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- SEPS	0	0	_	٥	ا ا	0	9	0	<u>.</u>	0	٥	0	0	0		İ	i	0	_	
- UPG OUT	0	0	0		0	0	0	0	<b>o</b>	0	0	0	•	0			0	0		
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TOS STATUS	0	0	ហ	ß	•	•	•	•	٠	•	•	٠	S.	•						
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AUTHOR12ED.	0	-	0	9 1	2	9	2	2	<u></u>	<u>-</u>	2	<u>.</u>	2	-	2.	i	1	0	151	
DEHAND			 				0			0				0				0	7	
TEVEL 5		! .		:	1	:		-	1 -					!		1	•	•		
STATE SUPPLIE	9 6	7 6	75	  -		70	7	1	,	: •	7		1	;		ļ	•		200	
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• UPG IN				-			0			0		0				İ			-	
TOS STATUS		!-	-	6-	502	5	6-	-	-	6	-	=	-				• •	•		!
MEW SUPPLY	0	~	31	32	32	32	32	32	32	32	32	=	30	7	<u>.</u>	~	٠	,	474	•
AUTHOR 1 ZED	0	~	32	32	32	32	32	32	32	32	32	32	32	32	32	•	7	·	463	
																		•		
OEMAND	0	0	-	0	•	0	0	0	0	0	0	-		-	_		· -		•	
LEVEL 7	}	ĺ	!	1		! !	!   -	  -	! ] -	; <del>1</del> -	' .   .				. ' !	• • · 1	(		i :	=
INIT. SUPPLY	0	5	, 196	8	38	- -	38	98	98	38	8	3	5	9	3	7	•	•	570	
- SEPS	0	0		<i>.</i>	0	0	0	0	0	0	0	0	0	•	J	· .			<b>-</b>	
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TO STATUS		-	: =	202	2	2	2		20	: -	-	-		•	•		; 	•		
NEW SUPPLY	0		37	38	38	38	38	80	86	8	8	38	35	37	36	'n	9		295	7
AUTHORIZED	0	7	38	38	38	38	38	38	38	.38	38	38	38		38			;	573	
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DEHAND	0	-0	-	0	0	0	٥	0	٥	0	0	ا <b>ہ</b> ز		-	7		2	2	==	

FIGURE 9 (continued)

PERIOD S PROJECTIONS FOR SKILL &

LEVEL 3	0 A 5	NO CHANGE	CHANG	m W	• '	<u>م</u>	•	•	0	<b>-</b>	2	-	<del>'</del>	÷	ŗ	n -	<u>•</u>	?	TOT	TOTAL 'RPOOL
	i	i				ļ .			-		-	! !	! : :	ļ	<u> </u>	-	  -   -		; <u> </u>	
INIT. SUPPLY	UPPLY	0	-	31	32	32	3.2	32	3.2	32	32	32	-	30	31	31	1	18	474	
S VLN	RBLTY	•	0.00 0.00	3.08 6	90.0	80.0	0.00	0.09	60.0	0.09	60.0	60.0	2000	60.0	•	•			-	0
- LEV	Y OUT	0	0	0	0	0	-	-	-		_	0	0	0	0	0	0	٥	2	
+ R01	ATEES	0	0		٥	0	_	-	-	_	0	0	0	0	0	0	0	0		-
+ LEV	+ LEVY IN	0	0	0	0	0	0	0	•	0	0		0		- -	· 	-	~	-	
									8	8										
TOS STATUS	TUS	٥		8	6	20	20	20	20	20	6 1	1 9	9-	17	•					
NEW SI	NEW SUPPLY	0		. 32	32	.32	. 32.	32_	32	32	31	32	3	30.	. 32	32	. 32	32	479	0
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DEHAND	DEHAND	0	0	0	6	Ģ		0	0	0	-	0		!   01 :		!			. ₹ !	
VEL 7	!								-	-				=				:	-	
17. SL	JPPLY.	0	~	37	38	38	38	38	38	38	38	38	38	35	.37	36	.36.	.36	562	
S VLNR		÷	0 00 0		90.0	90.0	90.0	90.0	90.0	80.0	0.09 (	3.09 (	, 60.0	60.0	٠	•		•	-	_
. LEY	T OUT	0	0	a :	_	7,7	-	0	0			_ _ :	_		0::	0	ا :	0 -	7	
+ ROTATEES	11665	0	0	-	-		-	0	Ö	0	~	-	<del>-</del>	0	0	0	o	<u>.</u>		
+ LEÝ	LEVY IN	0	-	0	0	0	-0-	0	0	0	0	0 ::	0	0	- :	2	. 2	7	1	
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			:																	
LEVEL 9		Z	CHANG							•										

FIGURE 9 (continued)

PERIOD A PROJECTIONS FOR SKILL

17 TOTAL RPOOL . = 479 151 2 - ROTATEES ... BASE JAIT. SUPPLY DEMAND TOS STATUS - ROTATEES - UPG OUT NEW SUPPLY AUTHOR: ZED LEVEL 5 INIT. SUPPLY - ROTATEES NEW SUPPLY AUTHOR 1 ZED NEW SUPPLY DEMAND LEVEL 7 INIT: SUPPLY AUTHORIZED DEMAND . UPG 0UT TOS STATUS + UPG IN + UPG IN TOS STATUS SEPS -- SEPS . SEPS

FIGURE 9 (continued)

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FIGURE 9 (continued)

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PERIOD 7 PROJECTIONS FOR SKILL 6

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- LEVY OUT	0	0	0	0	0	0	0	-	0		0				0	0	0	0	_
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FIGURE 9 (continued)

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LEVEL S	0 4 5	•	•	*		105		) <b>V</b>				- N	5 \ 0	•	•	•		105	2	• ▼			1 5 7	L	5 10	•	•	•		105	Z	7	1

FIGURE 9 (continued)

TOTAL RPOOL = 121 15 7 554 PERIOD & PROJECTIONS FOR SKILL 0 NEW SUPPLY S SUPPLY ROTATEES UPG DUT UPG IN - SEPS TOS STATUS AUTHOR 1 ZED DEMAND TOS STATUS NEW SUPPLY AUTHOR 1 ZED DEMAND LEVEL 7 INJT. SUPPLY - HOTATEES NEW SUPPLY - UPG DUT + UPG IN TOS STATUS - SEPS - SFPS LEVEL

FIGURE 9 (continued)

PERIOD & PROJECTIONS FOR SKILL

17 TOTAL RPOOL 0 0 0.09 0.09 0.08 0.08 0.09 0.09 0.09 0.09 0.09 ď NO CHANGE 10.0 AUTHOR12ED. LEVEL 7
INIT SUPPLY
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FIGURE 9 (continued)

PERIOD 9 PROJECTIONS FOR SKILL 6

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FIGURE 9 (continued)

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FIGURE 9 (continued)

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FIGURE 9 (continued)

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FIGURE 9 (continued)

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FIGURE 9 (continued)

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FIGURE 9 (continued)

PERIOD II PROJECTIONS FOR SKILL

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FIGURE 9 (continued)

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FIGURE 9 (continued)

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FIGURE 9 (continued)

PEPIOD 412 FROJECTIONS FOR SKILL

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FIGURE 9 (continued)

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FIGURE 10: S1 Base Supplies for Year 1

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FIGURE 10 (continued)

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FIGURE 10 (continued)

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FIGURE 10 (continued)

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FIGURE 10 (continued)

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NO CHANGE

FIGURE 10 (continued)

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LEVEL 9

FIGURE 10 (continued)

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<b>A</b>	-	3	32		اد.	~	•	•	31	32		29	32	32	~	.32	479	
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DEMAND 0 0			. 0					-	-	0	, O		;	0	0	0	*	
LEVEL 7			17	38	38	186	37	36		39	. 92	SE	; <b>8</b> 6	38	38	. 86	570	
SEPS 0		_						0		0	0	0	0	0	0	0		
TEES 0	C	0	0	0	0	0	0	0	0	0	0	0	-	<b>~</b>	7	~,	<b>~</b> 1	
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+ ROTATEES 0 0 0 0 + LEVY 1n 0 0		-0	- 0		- - ;	; o	90	0	-0	- 0	- 0		<b>-</b>	o ~	N C	<b>5</b> 74		
1 C		1			3		-	2	-						18		5.69	
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FIGURE 10 (continued)

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LEVEL 3	•	`-			101	101	0	10	10	101	2	•	-	10	10	01	101	151	
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- 35.73	1	! 		0	0		0		0	0	0	0	0	-	_			*	
- 100 C DUT	, c	, c	, -		o	, -	0	Ô	0	0	0	0		0	. 0	0	0 -	•	
- I FVY OUT	0		0	<del> </del>	_	0	0	0	0	0	-	0	-	0	0	0	0	<b>.</b>	
+ ROTATEES	0	0	-	7	-	0	-	0	0	0	0	0	0	0	0	0		i = : :	•
+ LEVY 18	0	!   <b>0</b> 	0	0	0	0	0	o	0	0	0	0	0	-	_	<b></b> (	1	r	
٠		0	0	_	-	-	0	0-	0	-	-\ -\	-	0	0	0	0 1	0	-	
	:	?	1	E	•		:		•		,	•	:	:	•				
Y JABAN SUPPLY	0	_	10	=	2	100	10	01	-10	- 10	- 01	01	5	107	۔ 1	_ 	0	151	
AUTHORIZED	0	-	01	0	0.	0.	0	0	2	9	<u>.</u>	0	0	0	<u>•</u>	<u>.</u>	۵ ;	121	
										-					] 6 (		!		
DEMAND	0	0	0	7	0	0	0	0	0	0	0	0		0	0	<b>.</b>	.	-	
רב אבר פ		.	:	3	2	1	2	2	31	1	3.2	32	29	32	32	32	32	479	
ALIA SUPPLI	! > c 	; - -	; -	-	-	  -		0	0	0	0	0	0	0	0	0	0	*	
- BOTATERS	· c	0		0	0	0	0	0	0	0	0	0	0	1	7				
TUP OUT		0	-	!	0	0	0	0	0	0	0	0	٥	0	0	0	0	- :	
VI 090 +	0	0	_	_		-	9	٥	اه	0	٥	إ		9	ا ا	)   	)   	<u> </u>	
- LEVY OUT	0	0	-	-	_	0	0	0		0	- (	- (	<b>-</b> (	0 (	0 0	<b>5</b> 0	<b>&gt;</b> (	~ ~	•
. ROTATEES	0	6	2	. 2	~	0	0	0	0	(	) S (		5	ا ا	-	; ;		!.	
+ LEVY 14	0	0	0	0	0	۵	0	0	0	0	<b>9</b> (	<b>)</b>	<b>5</b> (	- (	7 :		• :		
	 	!				-	2	32	30	- 25		31	29	32	32	32	32	478	: 
AUTHORIZED	9 0	1 11	3 2	3 6	32	32	32	32	32	32	32	32	32_	32	_32	32	32	, ee 3	1
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FIGURE 10 (continued)

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2	3	7	0	0	0			98	8 8	8 8	8810	8810	8810	88 0 60	8810	88 0 40 4	8810 40144
8.5	3	~	0	0	0	7	:	38	88	88	88	8 1 0	8810	8810	8810	8810	8810
7	; <	0	0	<b>-</b>	0	0		-	28	28	200		2	28 20	200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2010
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9	9 0		0	. <b>-</b>	-	0	1	. 8	38	38	88	8 8 1 0	88.0	8810	8810	9 0 9	98
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17	; -	0	0	_	-	0 0	•	37	23	28	67	37	787	200	201	781	7611
4	, -	0	0	_	0	0	1	37	37	28	337	38	138	37	37		
=	3	-	0	0	0	0		1	8 8	8 8	8 8 0	66 0	8 8 0	8 8 8 0	8 8 0	88 0 90 9	8 8 1 0 9 0 1 9 9
8	•	0	0	0	0	0		38	38	88	138	188	8 0	8810	8 8 0	8810	8810
7	; -		0	<b>-</b>	~	0		37	38	38	38	38	99	90	7 m 1 40 1	M M M M M M M M M M M M M M M M M M M	V 8 1 - 90 1 9 9
9	; -	٥	-	_	7	0		1	28	22	68 :-	66	9 1 - 9	001- 0-	0.80 1 - 0.00	0.001- 0-12	ww.t.
-	, c		0	0	0	0	•	: 	_ _ _	77	nn 10	nn 10	nn 0	nn 10 00	7710	mm 0 0010	nnio 00100
<b>C</b>			0	0	0	0		0	00	00	00 0	0010	0010	0010	00 0	00 0 00 0	00 0 00 00
. × 144:15 * 1.12		ROTATEES	N Sdn	- LEVY OUT	•	+ LEVY IN		A Iddits * JN	NEW SUPPLY AUTHORIZED	NEW SUPPLY AUTHORIZED	1	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		1		1	I

FIGURE 10 (continued)

BASE	-	~	•	7	40	4	^	•	٠	<u>_</u>	=	~	2	<b>=</b>	2	<b>-</b>	17	TOTAL	RPOOL
LEVEL 3	j		1	1	1		1	1	1	1			•	1			•		1
INIT. SUPPLY	0		<u>-</u>	=	<u>-</u>	<u></u>	_	<u>-</u>	07	-	2	2	>	-	<u>-</u>	2 '	?		
a SEPS	0	0	_	0	0	0	٥	,   	 	0	0	0	  - 	0	0	9	: 0		
- ROTATES	0	0	0	0	c	٥	0	0	0	c	0	0	0	-			<b>-</b>	*	
100 001	0	0	0	-	_	_		0	0	0	9	) O	0	0	0	:		•	
THE TANK	• •	•	0	0	0	0	0		0	0	0	0	0	0	0	0	0	-	
+ ROTATEES	0	0	0	-	-	0	0	_		0	0	0	0	0	0	<u> </u>	0	•	
+ LFV7 IN	0		0	:	0	  -	0	0	0	0	0	0	0	-	<b>o</b>	0	0		
N 11 +	0	0	_	0	_	_	_	0	0	0	0	0		0	0	0	<u>,</u>		
	!	!							:		1 1	,	:	: :	:			•	
NEW SUPPLY	0	_	01	=	=	0	01	0	=	2	<u>-</u>	9	0	0	•	•	•	151	
AUTHOR 1 ZED		<b>-</b>	. 0	0	10	0~	0.7	0.7	07	10	0.7	0	0	0	0	0	<u>-</u>	121	
		:			}	,	;			:	1	, ,		!!			•		
DEHAND	!		•	7	;	2		0	7	0	0	٥	0	0	~	-	~	٥	
LEVEL S.	-	-	=	7	3.2	3.5	32	32	90	32	-	-	5.	32	32	32	32	478	
- AFBC			-	! -	-	0	0	-	0		0	•	0	0	0	0	0	*	
- ROTATEES	0	0	0	0	0	0	0	0	0	c	0	0	0	~	~	7	~	•	•
• UPG 001	0	:	0	_	0	0	0	0	0	0	0	0	0	o	o	0	0	_	
* UPG 18	0	0	0	-	-	1	_	0	٥	0	0	اه	0	0	; 0	0	:	<b>-</b> :	1
· LEVY OUT		 	0	0	0	-	-	_	-	-	-	-	-	0	0	0	o [`]	<b>≪</b>	
+ ROTATEES	0	0				-	_ :	~		-	7	0	0	0	0	0	o ·	•	•
+ LEVY 1N	0	0	0	0	0	0	0	0	0	0	0	0	0		~	7	'n		
	•		:		:			•			*				[				:
NEW SUPPLY	0	~	33			33	33	=	30	32	32	30	9 9	_	75	32	7	777	
AUTHORIZED	0		. 32_	32	32	32	.32	32	32	32	32	32	32	32	32	32	35	- 187 -	
	;	!	:	•	1 ·	!	; .				:	1 (	; ;			•		•	
4:40	c	c	•	•			•									•	•	•	

FIGURE 10 (continued)

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	¢									•							
	,	_	0	0	0		0	0	0	0			0	0		0	-
	0	0	0		0		0	0	0	, 0	•		7	:		-	12
	٥	0	_	0	0		0	0	0	0			0	0		0	
	0	-	-		-	<u>-</u>	- -	 	: <b>-</b>				0	0		; ;	12
	0	~	-	~	-		_	_	0	-			0	-		0	1 2
	0	0	٥	٥	٥		0	۵			0	0	~	•	•	<b>=</b>	12
											•		•	:		•	
	-	39	3.8	38	30	3.7	3.7	39	37	34	i	•	38			36	999
		38	38	38	38	38	38	38	38	38	38		38	38		36	573
LEVEL 9 INT. SUPPLY 0 * SEPS 0 * ROTATEES 0	•	:	:				:				•			•			
LEVEL 9 INIT. SUPPLY 0 - SEPS 0 - ROTATEES 0	0	7	o ;	0	0	1		7	-1	7	0	د	•	•	• •	0	\$
######################################			İ														
* SEPS 0 * ROTATEES 0 * LEVY OUT	0	*	•	•	•	•	_	•	•	•		_	•	• !	•	•	9
- ROTATEES 0	0	0	_	0	0	0	0	0	0	0		•	0	0	0	0	-
· LEVY OUT 0	0	0	a	٥	۵	0	0	0	0	0		0	_	-	_	:	•
	0	0	0	0	0	٥		_		_		0	0	0	0	0	•
* ROTATEES 0	0	-		0	0	0	_	-		0		0	•	0	0	0	
TEVT IN O	0	0	0	9	0	0		0	0	ام	0	0		7		-	
NEW SUPPLY 0		5		•	9	9			# W				; •	: 4	: •	! 1	
AUTHORIZED 0	0	•	9 (	9	•	•	•	•	•	•	•	•	•		٠	•	
DEMAND 0	٥	-	0	0	0		-	0	: 	-		-				9	
													1	,		1	•

FIGURE 10 (continued)

PERIOD & ACTUAL SUPPLIES FOR SKILL &

LEVEL 3 INIT. SUPPLY			7				•				,				•	•	,	;	
INIT. SUPPLY		,   				j	. !		•	)		. :	•	:					
	0	-	0	=	=	9	0	0	=	0	0	<u>-</u>	<u>°</u>	0	•	•	•	151	
. SEPS .	-	0	-	_!   		0	0	-	6	0	   	٥	0	0	0	0	9	7	
- ROTATEES	0	0	0	0	0	0	0	0	0	0	٥	0	0		-	-	-	*	
- UPG 0UT	0	o i	0	_	<u>-</u> !		-				-	_	0	<b>o</b>	0	0	0	•	
. ROTATEES	0	0	-	-	_	_	0	0	0	0	0	0	0	0	0	0	0	*	
× 11 -	0	0	0	-	0	0	-	-	0	-	_	_	0	-	~	~	0	=======================================	
	:	:		•	:	:		•	;	;			:	•	*	:	•	•	
" NEW SUPPLY	0	-	10		=	10:	10	10	10	10	01	0	10	10	10	10	8	151	
AUTHOR12ED	0	-	10	10	10	01	10	01	0	10	0.1	0	0.1	01	07	0	10	151	
	•															8			
DEMAND	0	•	0	7	7	0	0	0	0	0	0	0	0	0	0	0	7	0	
LEVEL 5			! !	!					;	İ	!	l i	i I		!	!	i		
INIT. SUPPLY			13	32	- 23	1	1	-31	30	_32_	32	_30_	28	-16-	32_	32_	32_	477	
- SEPS		0	-	-	<b></b>	_	-	-	-	*100	-	0	0	0	0	0	0	•	
- ROTATEES	0	0	0	0	0	0	0	0	0	0	, 0	0	0	~	<u> </u>	ا	<b>-</b>	. 12	
	0	0	0	0		-	-	0	0	0	0	0	۵	٥	٥	0	٥	~	
* UPG 1%	: 0	0	0	_   	_ _ _			- i	-!	_		_ 	0	0	0	, 0	0	6	
- LEVY OUT	0	<b>o</b>	0	0	0	-	-		-	-	-		-	0	0	0	0	•	
ROTATEES	9	9	0	ا ا	2	-	2	_	0	0	0		-	0-	i	0	0	12	-
+ LEVY IN	0	۵	0	0	0	0	۵	0	0	۵	٥	0	0	-	7	~	~	•	
	•									:				1	:		-	1 2	
AUTHORIZED	0	n 17	77	7 7	32	2 2	7 6	- 2	32	7 7	- 2 - E	32	35	3 0	7 6	7 7	3.5	4.0	•
C34#7C	c	•	c	٥	~	•	-	-	~	-	_	_	~	7	_	_	-	•	•

FIGURE 10 (continued)

INITA SUPPLY	0	<b>a</b>	-	36	30	36	37	37	39	37	39	38	33	38	38	3.0	ĺ	26
. 56.75	! o !	i		-: 		0	0	0	0	0	0	0	0	0	0	0		•
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	~	-	~	1	_
- UPG 0UT	0	0	0	ا ا	٥	-	0	0	0	0	0	0	۵	C	· C	۵		•
+ UPG 12	0	0	0	0		_	_	0	0	c	, 	'o 	-		, 	, c		
- LEVY DUT	0	0		_	_	_	7	~	-	· -	-	-	• –	<b>o</b> c	<b>,</b>	· c		•
+ ROTATEES	0	0	~	~	-	! <b>-</b>	: <del>-</del>	7		-	. <b>-</b>	:		, 	· c	· c	:	-
* LEVY 1N	0	0	0	0	0	0.	ò	0	0	• 6	۵۰	0	0	9	ח כ	9 17		
	1	:	:	:	;	:	1	•	•	-	1		:	1			•	•
NEW SUPPLY	0	7	. 39_	. 38	38	38	37_	37_	96	37_	39	38	32	38	38	38	•	
AUTHORIZED	0 !	7	90	9	38	38	38	38	38	38	38	38	38	38	38	38		573
DEHAND	0	0	7	0		0	! !		-	<u> </u>	17		. •	0		0	0	•
	!	:	:	;	!	i	: : 1	:	į				:	:		:	!	:
INIT. SUPPLY	0	0	5	4	•	9	•	^		un	¥0	•	^	*	•	4	4	9
• SEPS	0	0	_	0	0	0	0	0		0	0	0		6			ł	
- ROTATEES	0	0			0	0	0	0		0	0	0		-	- •		- (	
+ UPG 1N	0	0		0	0		1		;			0		. c		-		
- LEVY OUT	0	٥			0	-	-	0			0	-		) C	<b>,</b>	) C		- <b>u</b>
* ROTATEES	0	0		0	0	0	ı	0	į	-		· -	ŧ		· • c	,	) c	
* LEVY IN	0	ا		0	٥	0	0	0	0	ح .	-	0	o a	· -	- (	-	-	un
			:	6	•					:			i					
NEW SUPPLY	0	0	S	•	•	•	•	~		•	•	S		4	4	9	4	9
AUTHORIZED	0	0	•	•	•	•	4	٠	•	•	•	•	i	٠	•	•	•	2
							;		•									
		•	•		•		1											

FIGURE 10 (continued)

PERIOD 9 ACTUAL SUPPLIES FOR SKILL &

	•	•	•		,												,		
LEVEL 3	ļ	!	: !	!				!	}	1		!	!						
INIT. SUPPLY	0	-	2	=	=	0	2	2	0	-	0	0	2	0.	0	01	•	151	
- SEPS	0	0		-	_	-	-	0	0	0	0	0	0	0	0	0	0	S	
- ROTATEES	0	0	0	0	0	0	0		0	0	0	0	0	-	0	0	0	-	
- UPG 0UT	0	0		~	~	-	_	-	_	-	-		_	-	-	-	-	17	
- L'EVY OUT	0	0	0	0	, 	٥	0	0	_	_	-	0	-	0	0	0	0	*	
+ ROTATEES	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
+ LEVY IN	0	0		0	0	0	0	0	0	0	0	0	0	-		-		*	
- 11 IN	0	0	7	_	~	7	~		2	7	7	_	7	-	0	0	7	22	
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4											•	:		:				:	
NEW SUPPLY	0	-	07	10	0	0	10	0	01	10	10	01	10	01	- 10	0	0	151	
AUTHOR 1 ZED	0	-	2	2	-	0	10	0	10	0	0	0	2	2	10	0	0	151	
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FIGURE 10 (continued)

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- LEVY DUT	0	0	_		0	0	0	0	<del>-</del>	_	_			0	0	0	0	•
+ ROTATEES	0	0	_		0	-	-	-	٥	-	0	٥		٥	0	0	0	12
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FIGURE 10 (continued)

PERTOD TO ACTUAL SUPPLIES FOR SKILL 6

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FIGURE 10 (continued)

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FIGURE 10 (continued)

PERSON STATES TOR SKILL 6

Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   Supply   S	BASE	-		ี ค	•		•	7	•	•	10	=	12	· E1	<b></b>	2	91	17	TOTAL	RPOCL
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FIGURE 10 (continued)

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- UPG 0UT	0	0	0	0	0	0	0	0	0	0	0	0	0	C	• c	· c	- •	- •
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· LEVY OUT	0	0	0	0	0	-	_	-	-	-	-	ه .	; c	۰ د	•	• c	• c	•
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LEVEL 9																		
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- SEPS	0	0	-	-	0	0	0	0	0	0	0	0	0	0	0	0	a	~
- ROTATEES	<b>a</b>	0	0	0	0	0	0	0	0	0	0	0	0	_	-	-	-	<b>.</b>
* CPG 18	0	0	0	0	٥	0	0	0	٥	۵	0	٥	0	٥	0	٥		-
- LEVY OUT	0	d'	0	<b>o</b> ʻ	0	0	0	0	٥	0	-	<b>-</b>	_	0	0	o	0	^
+ HOTATLES	٥	0	-	-	0	0	0	c	0	_	_		٥	۔ ا		ے ا	۔	•
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FIGURE 10 (continued)

PERTOD 12 ACTUAL SUPPLIES FOR SKILL 6

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- UPG 0UT	0	0	-	-	-		_		-	-		-	-	~	_	-	~	17	
- LEVY OUT	0	0	0	-	-	-		<b>-</b>	0	0	0	0	0	0	0	0	0		
+ LEVY IN	0	0	0	0	0	0			0	0	0	0	0	-	-	-	-	*	
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AUTHOR12ED	0	-	01	٩	2)	0	2	-	0.7	10	0.1	0.7	01	01	0	0.1	0.	151	
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INIT. SUPPLY.	0	7	13	-	32	7	29	28	-26	28	29	28	_26_	-	_32_	_32	36	9.60	
* SEPS	0	0	7	7	~	7	7	~	-			-		0	0	0	0	-	
- ROTATEES .	0	0	0	0	0	0	0		0	0	0	0	0		<b>7</b>	7		ر : :	
- UPG 0UT	0	0	-	-	0	0	0		0	0	0	0		_			~	9	
+ UPG IN	0	0	_	<b>-</b>					•					7	_	-		- 12	
- LEVY OUT	0	0			-	-		-		-	-	-	-	0	0	0	0	Ξ	
+ ROTATEES	0	0		7	0		0	0	0	0	0	0	0	0	0	0	0	5	ŧ
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FIGURE 10 (continued)

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2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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10 36 34 35 35 36 36 38 38 38 38 38 38 38 38 38 38 38 38 38	36     36     36     36     36     36     38     31     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     <
30     36     34     35     35     35     36     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     <	30     36     34     35     35     35     36     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     38     <
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FIGURE 11: S1 Promotions and Separations for Skill 6

## • • • SCENARIO TI - "STEADY STATE" • • •

SKILL 6 HOLES AND SEPARATIONS

PERIOD	LEVE SEPS	L 3 HOLES	LEV SEPS	EL 5 HOLES	LEVI SEPS I	EL 7 HOLES	LEVE SEPS H	L 9
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4	a	0	0	0	0	0	Đ	0
5	1	2	2	ļ	1	0	0	0
6	1	5	4	. 4	2 _	1	1	0
7	1	5	4	4	1	1	i	0
8	2	1.1	9	9	3 _	3	1	1
9	5	22	17	17	7	6	3	2
10	2	10	8	8	3	3	1	1
1.1	3	15	13	12	5	4	2	1
12	. 4	_ 21	17	17	7	_ 6 ,	3 .	. 2
13	1	6	4	7	2	2	1	1
14	1	6	4	7	2	2	1	1
15	0	3	2	4	i	1	0	0
16	0	0	0	0	0	0	. 0	0
17	0	2	2	3	ı	1	0	0
18		6	4	7	2	2	1	. 1
19	1	5	4	6	2	1	1	0
20	2	10	, 9 _		3	3	_ 1	1
21	4	21	17	27	7	7	3	2
22	2	10	В	13	3	3	1	1
23	3	15	13	19	5	4	2	1
24 25		21	17	26	7	6	3,	2
26	•	6	4	5 5	2	2	1	1
27	å·	_ 2 _	7 2	<del>3</del>	2 _	2	1	ů,
28	ā	ō	0	_	o ,	0	0	a
29	Ď	2	2	U	1	U		0
30	ī	6	4	5	ż	,	1	1
31	1	5	4	4	2		•	Ö
32	i	11	8	10	4	4	i	ĭ
33	3	21	17	18	7	7	3	2
34	1	10	8	9	4	4	1	1
35	2	15	12	13	6	5	2	1
36	3	21	17	18	7	7	33_	2
37	i	6	4	5	2	2	1	- 1
38	1	6	4	5	2	2	1	1
39	0	2	2	2	1	1	0	a
40	0	Q	0	0	0	0	0	0
41	0	2	2	2	ł	1	0	0
4 2	l	6	4	5	2	2	ı	1

FIGURE 11 (continued)

	LEVE	L 3	LEV	EL 5	LEVE	L 7	LEV	FL 9
PERIOD	SEPS	HOLES	SEPS	HOLES	SEPS H		SEPS	HOLES-
43	1	S	4	4	2	1	1	0
. 44	1	10	9	9	4	4	2	. 1
45	3	22	17	19	7	8	3	2
46	1	10	9	9	4	4	1	1.
47	2	16	13	14	6	6	2	2
48	3	20	17	17	7	7	3	2
49	1	6	4	5	2	2	1	1
50	1	6	4	5	2	2	i	ì
51	0	2	2	2	1	1	O	0
52	0	0	0	0	0	0	. 0	0
53	0	2	2	2	ì	1	0	0
54	i	6	4	5	2	<b>2</b>	i.	. 1
5 <b>5</b>	1	5	3	4	2	1	1	0
56	1	10	7	9	_ 4	. 4_	i .	. 1
57	3	21	14	18	7	8	3	2
58	1	10	7	9	4	4		1
59	2	16	11	14	6	6	2	2
60	3	21	14	18	7	8	. 3	_ 2
61	1	7	4	6	2	3	1	1

FIGURE 12: S1 Projections and Supplies for Period 48

. . . SCENARIO SI - "STEADY STATE" . . .

PERIOD 48 PROJECTIONS FOR SKILL 6

RPOOL	:	;		:		52	,	Ì			:							9.5					į				••		<u>*</u>			
TOTAL	401	ا	<b>~</b>	-	! !	378	151		-227		706	17	,	~	17	1		692	483	-209		,	- C	. 🗢	~				0 <del>1</del> 0	573	25	:
1.7	01	o .	-	0	: '	6	10	•	-		32	0	7	0	٥	•	t	30	32	! ~		;		• ~	0	0	:	ŧ.	7	38	; 7	•
16	01	0	-	0	: '	6		:			32	0	7	0	0	!	,	30	32	~		,	,	7	0	0	;	ı	50	8	-	ı
15	10	0	_	-	: .	60	0		7		32	0	7	0	-	į	•	31	32	: -		,	, .	~	0	0	!	•	35	9 0		•
7.	0	o '	0	-		0-	01	:	_		32	0		0	-	•	١	32	32	. 0		,	, -	-	0	0	:	•	36	3.8	~	,
=	Ē	0.	0		233	30	01		-20		52	-	0	0		;	4 6	25	32	-20		;	٠ •	0	a	0	!	30	37	38	: -	•
12	3.1	0	-	-	23	30	0	:	-20		25	-	0	0		:	4	25	32	-20		,		0	0	0	•	30	?	3.8	: -	
=	30	0	0	-	23	29	0.1		61.		52	-	0	_	~	<b>1</b>	2	51	32	6-1		;	! }. □	0	. <del></del>	-		30	7,	38	: -	
10	32	o :	0	-	23	3,1	07	!	-21		52	-	0	-		:	4.5	5 1	32	- 1 -					٠,	_						
<b>~</b> }	32		Э.	-	24	31	10		-21		25	_	0	-	-	:	S ₹	2	32	-1.0		,	; -	0	0	-	!!	30	3,	38	-	
60	31	0	0	-	2 4 1	30	0	:	-20		5.5	7	0	0	-		46	15	32	6-1-		ŗ	: -	. 0	0	0	!	29	36	38	. ~	ı
7	32	0	0	-	24	31	10	:	-51		52	2	0	0	-	1	9	51	32	61-		,	! -	. 0	0	0	! ! !	5.6	36	38	. ^	i
•	34	0	0	7	26	32	01		-22		52	7	0	_	7	;	र र	51	32			ŗ	, -	0	<b>.</b>	-	f 1	32	37	36		•
S	35	' '	<b>-</b>	7	25	32	10		-22		25	7	0	-	7	:	4. C	2	32	: -			- (	0						38		,
-	35				25		1											,		1 6 7 1		,	· -	0	0	-		29	37	8	~	
	35	- (	0	~	1 7	32	0 1	1 1	-22		52	2	٥		7	;	7 7	š	32			į	: -	0	0	-		59			! ~	•
~	~	0.0	0	0	. ~	~	<b>-</b>	!	-2		9	0	0	0	0	:	7	<b>c</b>	~	: 7	:	•	۱ c	0	0	0	•		~	m	: c	,
	0	ص ر د	<b>-</b>	0	0	0	0	:	o		0	0	0	0	0	t t t	9	0	9			c	, -	0	0	0		0	0	0	0	,
BASE 3	INIT. SUPPLY	- SEPS	* KOTATEES.	- UPG 0UT	TOS STATUS	NEW SUPPLY	AUTHORIZED	***************************************	DEHAND	LEVEL S	INIT. SUPPLY		- ROTATEES	- UPG DUT	+ UPS IN	1,1,1,1,1,1,1	105 514705	NEW SUPPLY	¥C1	DEHAND	,	LEVEL /	St by	- ROTATEES	- UPG DUI	• UPG 111	:	TOS STATUS	NEW SUPPLY	AUTHORIZED	0.48.30	

FIGURE 12 (continued)

PENIOD 48 PROJECTIONS FOR SKILL

17 TOTAL RPOOL 0 0: 378 9 -. . 362 ***** 01.0 0.09 51 _0.08. 0.08 010 30 0.08 0.08 0.09 0.08 51 00 000 BASE LEVEL S INIT. SUPPLY OVS VLMRBLTY— - LEVY OUT + ROTATEES LEVEL 3 Init. Supply Ovs Verrelty AUTHOR! ZED. AUTHOR: ZED* LEVEL 9 INITO SUPPLY AUTHOR: ZED DEMAND - LEVY OUT -----NEW SUPPLY NEW SUPPLY NEW SUPPLY DEHAND -------DEMAND + LEVY 1N · UPG IN TOS STATUS TOS STATUS TOS STATUS - SEPS

FIGURE 12 (continued)

	F						•	•								-			i
4	1.0		10	- 40	1		558	558		0		100	7			103	101 9 9		-2
7		0					37	37	1	0		ه!	0			4	•		0
5	•	0	0	~						0		•	0			.0	9	•	٥
3	•	0	0	~			37	37	*	0		•	0		٠	•	•	:	o,
36	•	0	0	_		ſ	37	37	1	0		•	0	1	•	•	•	5	0
3.7	60.0	_		0		31	. ~			0		7	0		•	^	7	1	oʻ
37	0.00	-	-	0	1	3	37	37		0		)	0						o
										0		•	0	1	^	8	. 7		-
	40.0									0	į	30	0	1	80	60	7	1 1 1	7
37	60.0	-	-	o,	:	7	37	37	1	0	!	7	0	1	7	7	7		٥
3.5	0.08	0	-	0		30	37	37	•	<b>o</b>		^	0	1	7	7	7		o ;
								37					0	;	^	7	~		
										0		7	٥	1	7	7	7	:	0
37	0.08	-						37			ļ	•	-	1	7	7	7	;	0
7,0	0.08	0	0	0	*	58	37	37	1	0	1	•	-	1	7	7	-	•	0
						29		37	1	0		•	-	1	7	^	7	!	0
n	0.0	0	0	0	!		m	~	1	0		0	0	:	0	٥	o		0
0	•	၁	၁	0		0	٥	0	1	<b>o</b>	:	0	0	1	0	0	o	;	0
INIT. SUPPLY	ONS VLNHBLTY	- LEVY DUT	* ROTATEES	+ LEVY 118		TOS STATUS	NEW SUPPLY	AUTHORIZED.		, DEMAND	LEVEL 9	INIT. SUPPLY	+ ROTATEES	**********	TOS STATUS	NEW SUPPLY	AUTHOR12FD.	111111111	DEMAND

FIGURE 12 (continued)

BASE	-	~	~	*	S	9	7	•	•	10		12	-	<del>-</del>	-	<u>-</u>	11	TOTAL	80
LEVEL 3				,		, '		,									٠		
INIT. SUPPLY	C.	~	0	<u>-</u>	9	2	0	0	Œ	7	7	7	~	~	•	•	•	105	
- SEPS	0	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	~	
- ROTATEES	0	, ,		0	0	0	0	0	0	0	0	0	0	0	٥	-	0	-	
- UPG 0UT	0	٥	~	7	7	7	~	7	_	0	0	0	0	0				- 12	
• LEVY DUT	0	0	0	_	0	_	-	0	_	-	0	0	0	0					
· LEVY IN	Ö	0	0	0	0	0	0	0	٥	0	0	0	0	<b>-</b>	~	<b>-</b>	_	S,	
	٥	0	_	<b>.</b>	~	•	•	~	т	0	0	0	0	0	0	0	0	7 7	
	!		*			•	•						1		3				
NEW SUPPLY	0	~	2	0	ò	10	0	0.	•	~	7	7	7	*	^	^	•	105	
AUTHORIZED	0	-	10	9	2	0	10	0	01	2	<u>-</u>	<u>-</u>	0	<u> </u>	2	<u> </u>	-	181	
	:	:	•	1 3	•	:			1 1	:		•	:	•		:			
DEHAND	0	7	0	٥	a	0	0	٥	-;	<b>50</b>	<b>6</b> 0	<b>æ</b>	89	•	~	~	~	<b>*</b>	
E VEL 5		1	. 1	!	1	.	;	; ;	•	!	:	i	!	. :		! !	. 1	:	
INIT. SUPPLY	0	*	\$	4. 2	37	30	23	2	9	7	0	0	0	7	35	37	108	430	
- SEPS	0	0	~	7	7	7	7	7	-	_	0	0	0	0	0			<b>*</b>	
- ROTATEES	0	0	0	0	0	0	0		0	0	0	0	0	_	7		7	^	
- UPG OUT	0	0		- - !	<b>-</b>	٥	0	0	0	0	0	0	0	0	<b>-</b>			~	
• UPG IN	0	0	~	~	~	7	~	7	-	0	0	0	0	0			~		
- LEVY GUT	j	0	٥	_	0	0	0	0	ا_ ا	0	o.;	ا ا	0	.! 0	0	<u>.</u>	0	~	
+ ROTATEES	0	0	_	7		-	0	0	0	0	0	0	0	0	0	0	0	S	•
+ LEVY !N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	~	~	'n	
+ 11 1H	0	0	0	0	0	7	0	0	0	0	၁	0	0	٥	0	0	0	~	
	:	:	1	•		£	;	•	1 5 8	3	•	•		1 2 8	•	1	:	1	
NEW SUPPLY	0	<b>T</b>	*	45	37	ĵ	23	<u>-</u>	'n	-	0	0	0	33	7	37	108	4 > 4	
AUTHORIZED	0	n	32	32	32	32	.32	32	32	32	32	32	_ 32	32	32	32	, 2	483	
********					:	•	:	:	:	1	•	ę #	ï		•	•	:		
4	•	;		•	,	•	•	•	•	•	;	•	•	7	•	ų	•	3	

FIGURE 12 (continued)

400	•		~		. 60	<b>. ao</b>	<b>æ</b>		522	573		15		•		~	1	09	0.		2
Š		,    -		. ~	0	0	~		52	38	:	7	ļ	38	•	-	1	39	•	•	-23
4	. 0	~	0	-	0	o	7	•	47	38		•							•		
3 *	•	~	0	-	. 0	0	2		45	38		-1		•	0	0	;	٠0	•	:	0
a.	0	, <b>~</b>	0	0	0	0	-		2	38		-1		Ŧ	0	0	•	7	•	1	~
=	: 0		0	0		, <b>o</b>	0		10	38	*	78							•		
25	0	0	0	0	-	0	0		7.7	38	•	<b>.</b>		1	· •	0	•	*	e	;	7
30	0	0	0	0	-		0		000	38		<b>e</b> 5		0	0	0	1	0	•	1	9
32		0	0	0		· <b></b>	0		32	33	1	<b>40</b>		0	٥	0	1	0	•	•	•
27	-	0	0	0	_	_	0	:	26	38	1	12							•		
26		0		1			- 1					•		0	0	0		0	•	•	•
2	-	0	0	٥		~	0	1	2 6	38	;	12		0	0	0	;	٥	٠	;	•
. %	-	0	0	0	-	_	0		28	38		0		m	0	0	:	•	•	•	n
37		0	0	-			0	1	11	38	:	_							•	1	7
	-	0	٥	-	0	0	0	8 8	45	38		~				0			4	•	*
47	-	0	~	-	0	0	0	1 6 6	4	38	1	8		-	-	-	•	_	•	:	v
٦	0	0	0	0	0	0	0	:	-	~	-	0		0	0	0	;	0	0	•	0
	0	0	0	0	0	0	0	1	0	0	-	0	1	٥	0	0	1	0	c	! !	0
LEVEL 7 INIT: SUPPLY	. SEPS	- ROTATEES	- UPG 0UT	+ UPG 12	- LEVY OUT	+ ROTATEES	AL LEVY IN	1 1 1 2 2 4 4 4 5 5	NEW SUPPLY	AUTHORIZED	, , , , , , , , , , , ,	DEMAND	LEVEL 9	INIT. SUPPLY	- SEPS	* UPG 12	* * * * * * * * * * * * * * * * * * * *	MEW SUPPLY	AUTHOR 1 ZED		DEMAND

FIGURE 13: Details of Base Closure Assignment Scenario

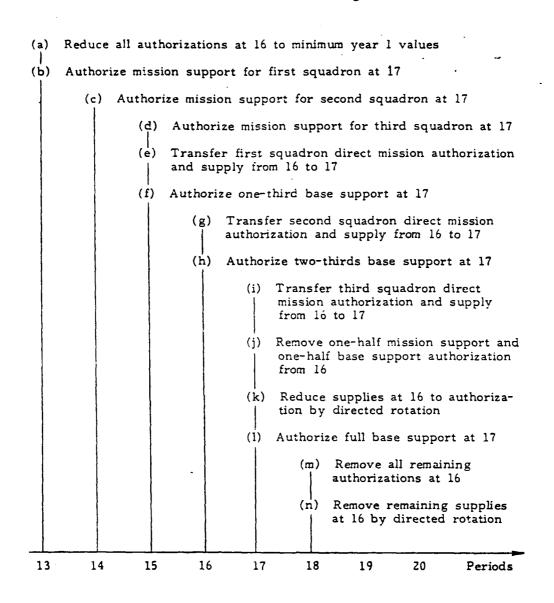


FIGURE 14: S2 Aggregate Results for Year 2

. . . SCENARIO SZ - "STEADY STATE" . . .

YEAR 2: AGGREGATE RESULTS

-	LEVEL	1 P0P	LEVEL	3 P0P	LEVEL	5 P0P	T LEVEL CHNG	7 POP	LEVEL	9 HOH	TOTAL CHNG F	AL POP
SKILL												
HIERING		0	1	٧	•	22		30		12		70
- SEPS	0	0	-	ري ا	٣	61	~	29	0	12	Ŋ	92
(EXP)	0	0	-	ر ا	٣	6	-	59	0	12	្រំ	9
- UPG 0U1	<b>3</b> -	1	<b>u</b>	0	-	1.8	-	2.8	0	12	=	54
• UPG 1N	क	0	<b>J</b>	: -	S	23	_	53	: -	13	15	69
her RESULT	0		-2	1 7	-	23	-	29	-	-	-	64
<b>AUTHORIZED</b>	į	0		<b>'</b>		22	:	31		12	•	7
3,4111												
ENTERING		0		-	•	2.1	1	4 6		1.2	•	92
- SEPS	0	0	1	0	3	18	2	46	0	1.2	4	86
(EXP)	0	0	-	10	3	1.8	2	44	0	12	9	86
- UPG 0UT	∞,	<b>3</b>	10	0	-	11	-	45	C	. 12	20	99
+ 1.PG IN	€	O	60	8	0.1	2.1		4 6	-	13	28	4
NET RESULT	0	0			9	27	-2	. 97	i: -	13	. ~	36
AUTHOR LZED				12		717		49		7.7		*
KILL 3												
ENTERING	•	0		-		59	. <b>t</b>	156	•	28	•	257
- SEPS	0	0	7	12	-	4.8	٥.	147	<b>-</b>	2.4	26	231
(EXP)	0	0	7	12	11	48	6	147		2 4	56	231
- HPG 001	10	07-	1.2	0	3	45	2	145	0	24	27	204
+ UPG IN	01	0	0.	0	12	5.7	3	148	2	26	37	241
NET RESULT	0	:0	7	0	-2	5.7		. 60		26	97-	247
AUTHORIZED		0		<b>3</b>		47		1 4 5	I	9.6	•	274

FIGURE 14 (continued)

- SEPS	C	•				•				•		•
- SEPS		•	7 17	0		1			71	,		, ,
( d x u /	<b>-</b>	<b>o</b>	0	308	116	445	5.	٠ [	<del>-</del>	5/	7.11	1347
	<b>၁</b>	C	44	308	911	495	35	b 1 5	<b>→</b>		211	1392
- uPG 0U	<b>,</b>	-246	308	0		462	30	20.6	0		595	197
• UPG 1R	246	0	246	246		770	33	539	8	83	841	1638
1111544 148			-108	2,16	159	770	0	5.39	9-	83	35	1638
AUTHOR12ED	;	, o o !	; ; ;	347		530	) : !	549	, i	9.1	; ;	1517
SK111 5												
FRIERING		C	•	. 61	•	28	•	₹ ₹		2		9.3
- SEPS		0	7	17	ъ	23	?	4.2	0	. 7	<b>&gt;</b>	8
IF XP)	1	0	2	17	5	23	2	42	0	2	٥	8
- uPG 001	_	-13	1.7	0	2	2.1	-	Ţ	0	7	33	5 1
+ UPG IN	_		13	13	17	3.8	7	£ #		!	46	47
- xT OUT	0	0	0	13	10	. 28	0	43	-	7	-	98
NET RESULT		0	9-	13	0	28	-		0	2		98
•	٠	c		-	1	9.6	ı	. 3	ı	•		•
SKILL 6				100		: 1 1 1			. <b>I</b>	ਪ ਹ :	•	1 2 4 9
- SEPS	0	0	6 1	132	4	371	35	523	7	7.1	152	1097
(EXP)	0	0	19	132	84	371	35	523	7	71	15.2	1097
- UPG 0U1	1 105	-105	132	0	52	346	æ	515	0	7.1	270	827
+ UPG 1N	105	0	105	105	132	474	2.5	540	SC	29	375	1202
NET RESULT	1	0	94-	- 501	23	478	81-	540	9-	44	74-	1202
AUTHORIZEL		0		141		450		535		9.4		1210
SKILL 7												
ENIFRING	i ,		•	23	•	6.3	•	92	•	18	•	961
- SEPS	0	0	m	20	-	5.2	S	8.7	0	æ	1 9	177
(EXP)	0	0	٣	20	=	5.2	3	87	0	18	61	177
- uPG 0U1	91 1	- 16	20	0	·C	44	-	86	0	1.8		137
+ UPG IN	91	0	16	1 6	20	69	۴	8.9		61	56	193
NET RESULT	•	0	-1-	16	9	69		. 6 H	; .   . <b></b> 	61		193
							,					

FIGURE 14 (continued)

28     174     11     186     4     27     51     392       28     124     11     186     4     27     51     392       55     171     6     191     3     30     154     436       19     171     6     191     1     10     20     282       19     171     6     191     1     10     2       19     140     2     20     40     2       28     132     7     149     2     20     40     2       29     140     2     20     40     2     20       20     11     9     140     2     20     40     2       20     132     7     149     2     20     40     2       20     132     7     149     2     20     40     2       20     132     7     149     2     20     40     2       20     132     7     149     2     20     40     2       20     132     7     149     14     10     3     11       20     140     2     2     2     11		u.	c a	
124		8 5.5 5 0	8 55	
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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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SEPS	. L 	: .	-		30.	•	987				1 00	•	- H
(EXP)         0         25         169         185         802         33           UPG         OUT         135         169         0         54         746         8           UPG         IN         135         169         0         54         746         8           UPG         IN         135         135         169         169         17         18           HORIZEO         0         0         -59         135         -70         917         13           HORIZEO         0         0         -59         135         -70         917         13           HORIZEO         0         0         -8         57         41         176         14           EKPO         0         0         8         57         41         176         14           EKPO         0         0         8         57         41         176         14           EKPO         0         0         8         57         41         176         14           EKPO         0         0         45         45         57         221         15           HORIZED         0	SEPS	0	0	25	169	185	802	33	505	**	7.8	257	1554
UPG OUT 135 -135 169     0     54     748     8       UPG IN 135 0 135 135 169     917 13     917 13       HESULT 0 0 -59 135 -70 917 13     917 13     13       HOR12ED 0 0 8 57 41 176 14     176 14       HOR12ED 0 0 8 57 41 176 14     176 14       ERING - 0 6 8 57 41 176 14       SEPS 0 0 8 57 41 176 14       UPG OUT 45 -45 57 0 12 164 3       UPG 1N 45 0 0 -20 45 57 221 12       HESULT 0 0 -20 45 57 234       LL 35 6 0 64 234       LL 35 7 44 31 133 18       LE 35 7 41 133 18       HERSULT 0 0 7 44 31 133 18       LE 35 7 42 13       LB 51 7 41 13 133 18       HERSULT 0 0 7 44 31 133 18       HERSULT 0 0 -16 35 41 168 9       HESULT 0 0 -16 35 41 168 -14	(EXP)	٥	0	25	169	1.85	802	33	505	<del>-</del>	7.8	257	1554
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HESULT G G -59 (35 -70 917 13 HORIZED O 195 1151  LL 34 ERING - 0 - 65 ERING - 0 - 65 ERING - 0 - 65 ERING - 0 - 65 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 14 HIT 176 17 HIT 176 17 HIT 176 17 HIT 177 HIT 177 HIT 177 HIT 177 HIT 177 HIT 177 HIT 177 HIT 177 HIT 177 HIT 177	UPG	135	0	135	135	169	617		55.1	80.	86	201	1689
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RESULT 0 0 -16 35 4 168 -14	0 P G	35	0		35	7	168	6	305	S:	4 1	128	556
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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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FIGURE 14 (continued)

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- St PS	<b>-</b>	c	0		0 -	153	23	130	9	<u>٠</u>	46	5/3
( ( x b )	Ξ	C	0		1.0	15.3	53	130	9	<b>5</b> €	39	3/3
- UPG 0UT	0	O	0	_	17	136	r	127	0	8 9	2.0	353
· UPG IN	0	C	0		0	136	17	1 44	3	92	70	373
ست ا	! =	· · ·	' ' 0 !	· !	-27			, 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 26	981	373
AUTHORIZED.	l i			2	: : !	961		153		9.1		442
Skill 71	I		!		,							
ENTERING	•	c	1	0	•	7	•	4	•	-	•	20
- UPG 0UT	o	0	0	0	~	=	0		0	-	7	1.8
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NET RESULT			! ! 0 !	! C	. 21					· !	0	202
AUTHORIZED		0	: 	0		17	:	2		-		20
SKILL 72 ENTERING		0		177	,	382		259		195		1013
- SEPS	0	0	61	15.8	61	363	39,	220	-	181	7	922
(EXP)	0		6	158	61	363	39	220	<b>3</b>	181	16	922
- UPG 0UT	5.7	-57	39	119	32	331	\$	214	0	181	134	788
⊃:	57	0	57	176	39	370	3.2	246	9	187	161	616
NET RESULT	' ! =	: : C	' !	176	-12	370		246	! & !	187	-34	676
AUTHOR17EU	:	0		177		386	i I	249	!	200		1032
SKILL 73						:		:	:			
ENTERING	,	0	•	5.7	,	116	•	7.7	•	4.6	. :	767
- SEPS	0	0	7	5.0	<del></del>	112	=	44	~	43	52	271
(EXP)	0	a	7	50	Ŧ	112	=	99	ر ا	43	25	271
- UPG 00T	18	-18	12	38	10	7	7	4	0	43	42	578
	1.8	0	18	5.6	12	113	0.	7.4	2	45	09	289
NET RESULT	, !		! ~	. 43 54	. 2-		T)   T	,	7	4.5	-7	289
AUTHORIZED		0		15		12	1	7.8	1	; ; ;	!	790

FIGURE 14 (continued)

		C.	• 1	2.3	•	112	•	45	•	32	,	232
51.12	o	<u>.</u>	2	21	-5	101	,	g: G:	-	31	15	217
(EXP)	=	c	7	-	S	107	7	er er	_	3.1	<u>~</u>	217
100 9dn	7	1:	2	91	=	96	-	1.7	0	31	5.4	193
UPG 1H	7	0	7	23	\$	101	- 1	48	(	3.2	3.1	224
RESULT		0	0	23		•	•	1 84 1 88	0	32	, 30 , 1	224
AUTHOR17ED		C		7.5		!		7.9		56		237
11 75											:	
FRING	ı	0		15	e	101	•	59	ı	63	1	286
SEPS	0	c	9	45	~	104	Œ	5.7	7	5.9	2.1	265
( E x P )	0		9	45	6	104	æ	57	<b>T</b>	59	2.1	265
UPG OUT	91	-16	-	34	٠	9.6	_	5.6	0	5.9	37	228
11 P G 1 N	1.6	0	16	5.0		106	6	45	-	60	53	281
NET RESULT	1 0	1 0	·	105	! !	901	0	1 29		09	. 5	281
AUTHORIZED	i	a		44		106		÷ 4	-	6.5	1	2 B 4
SKILL 76	; †						1	•	:		i	
FRING	•	0	•	c	•	5		J.	3	~	•	2.1
100 540	С	0	0	0		13	0	'n	0	2	_	2.0
HP6 114	D	C :	0	0	0	13	- 1	4	0	. 2	- !	2.1
NET RESULT	0	O	0	0	-	13			0	2	. 0	2.1
HORIZED		0		0		91		Ŧ				22
SAILL 71												i
FRING	•	<u>a</u>	•	7		47	١,	36		9.6	ı :	116
SEPS	0	0	-	9	7	<u>ئ</u> ت	4	32	0	5.6	7	109
(ExP)	0	0	-	9		4.5	<b>3</b>	3.2	0	9.6	7	109
110 9411	7	- 5	2	ਤਾ	ιſς	40		3.1	0	9.2	0.	66
UPG 12	2	0	2	4	2	42	ای	3.6	-	27	12	111
NET RESULT	i : c	! ! C ! I		. •		42	. 0	1 46	-	27		

FIGURE 14 (continued)

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1 1 7 1 1	>	o	7	24	n	83	7	50	٣	47	15	704
- upg nut	æ	₹	9	1.8	පා	7.5		44	0	47	23	1 4 1
+ 11PG IN	æ ;	0	<b>60</b>	5.6	•	9.1	Œ	57	-	48	3.1	212
NET RESULT		; ; ;	1 0 1 1	2.6	; ; ;			5.7		. 60 7		212
AUTHOR17ED	<u> </u>	5		25		26	1	5.6	! !	50	; ;	223
SAILL 79				ļ		:						
ENTERING		0		0	1	17	ı	\$	•	2	ı	25
- uPS out		0	0	0	7	51	C	\$	0	~	2	23
+ HPG 111		c	0	0	0	15	2	В	0	2	2	25
NET RESULT	! °	i 10 11	1 0	1 0	1 21		. ~	; ; = =================================	! ! C			75
AUTHOR17ED		0		0		19		ı ın	)	5	)	26
Sk11.1. MD												
ENTFRING	ı	0	•	3.2	•	76	ı	4.5	1	85	•	274
- 15PS	0	0	7	67		3.5	Ŧ	- 1,5	9	66	20	254
(EXF)	С	6	~	67	r	8.8	æ	5.7	9	79	2.0	254
- uP6 001	<u>:</u>	01-	, ,	2.5	6	80	7	ን አ	0	44	28	276
+ HPG 1N	101	C	0.   1	32	7	8.7	<b>5</b>	4	. 2	18	3.8	264
NET RESULT		C	0	32	; ; <u>.c</u> .	8.7	: !!	1 19	   7   1			747
AUTHOR17ED		0		3.1		16		65		. 88 .	:	278
SKILL BI							:	•		1		
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NET RESULT	=	0	0	0	0	· · -		, , –	1 0		! =	
AUTHOR12ED		0		0		_ 		- -	:	91		1.8

FIGURE 14 (continued)

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ſ	7	7	-	10	. ~			•	1.3	13	~	01	! ! មា !	: !		ı	3		_	2	- 2-		1	1	_	=	2	12	: : - : :
113	104	601	66	109	1 607	113		105	101	101	16	97		117		15	15	15	13	13		1.8		126	121	121	109	116	. 9-1
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α *	4.2	42	32	47	47	47		25	23	23	17	75	25	26		0	С	6	0	0	- 0	c		33	30	30	23	34	34
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SKILL 82 Entering	- SFPS	(EXP)	- uP6 0UT	+ uP6 1N	NET RESULT	AUTHOR17ED	SKILL 83	ENTERING	SEPS -	(EXP)	- UPG OUT	• 1)PG 1N	NET RESULT	AUTHORIZED	SAILL 84	ENTERING	- SEPS	(EXP)	- UPG 0UI	+ UPG IN	NET RESULT	AUTHORIZED	SKILL 85	ENTERING	- SEPS	(EXP)	- UPG 0UI	+ UPG IN	NET RESULT

FIGURE 14 (continued)

- SEPS		=	ı	07	t	ž	•	<u>`</u>		S	1	0 * -
	0	c	2		0	3.8	~	2.5	3	53	5	-
( E X I )	'n	9	7	¥-	C	3.8	~	11	7	53	٠	13.
TUP S OUT		ţ	S		C	35	-	2.1	0	53	15	116
NI 540 +	· •c	С	. <b>c</b>	61	: 	4.0	<u>ب</u>	24	-	£ 5	7.1	1.17
	!	1   5	-	1	,	3	-	1 7		·   37   4   1	1	7.7
AUTHORIZED		ا 0 ت				36	•		<b>1</b>	5.8	;	136
5 K 11 1 0 7												
ENTERING	1	0	•	24	.	84		95	: • :	32	1	160
- SEPS	0	0	2	22		47	7	6 17	-	11	=	149
(EXP)	0	0	2	72	_	47	7	6+	-	3.1	=	149
- UPG 0UT	30	£	9	9	7	43		4.8	0	31	61	130
+ UPG IN	6	С	60	24	9	4.9	Ŧ	25				157
110748 148			0	24		6+	1 7		. 0	32	~ ~	157
AUTHORIZED		C		24		4 6		42		30		162
ENTERING	•	0		0		96	•	621	•	1 1 8	i j	393
3010	0	· c	<b>C</b>	· c	ď	0	3.1	4.1	4	- 1	4.2	35
(EXP)	0	0	0	0	  -  -	916	3	- 48	· •	112	4.2	351
- UPG OUT	<b>၁</b>	0	0	С	01	8	<b>:</b>	<b>7</b>	0	112	=	337
+ UPG 1M	0	ני	0	c	0	18	0.1	h', l	₹	911	* I	351
NET RESULT	0	0	0	0	-15	81	-25	154	-2	116	-42	35.1
AUTHOR: ZED	!	0	-	0		120		202	-	118		<del>3</del>
SKIIL 89	į	į								į		j
ENTERING		0		125	,	207	ŧ	107	t	54	•	4.0
- StPS	0	0	2	112	80	661	<u>+</u>	43	m	15	38	455
(FXP)	0	0	13	112	8	199	+ -	6	~	5 1	38	455
- uPG 0UT	40	-40	28	<b>4</b>	16	183	7	6	0	15	94	369
+ UPG 1N	40	0	40	124	28	211	9	101	7	53	126	495
NET RESCL	C	- C	7	124	Ŧ	211	0	107	-	5.3	2	361
AUTHORIZED	:	. c	,	. <u> </u>		5 %	r					458

FIGURE 14 (continued)

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	•	c	f	0	•	<b>-</b>	3	6.2	•	-		* / -
5d35 -	0	O	0	0	7	7.8	æ	46	-	40	10	164
(ExP)	0	0	0	0	٣	78	9	46	-	9	:	164
100 Pdn -	0	C	0	0	٥	69	-	45	0	40		154
+ UPG 111	0	0	0	0	0	69	5-	F 5	- !	1 5	 	791
NET RESULT	0	0	0	0	-15	69	2	1 57 1 47 1	0	3	-10	164
AUTHORIZED	-	0		0		66		44		40	!	185
, Skili, 91												
ENTERING	•	С		0		5-	:	6	•		•	43
- SEPS	0	C	0	0	0	<u>&gt;</u>	2	1.7	0	5	2	7
(EXP)		=	0	0	0	6	?	1.7	0	l	2	7
- up6 nut		٥	0	C	2	1.7	-	. 4-	0	!	<u> </u>	38
+ UPG 18		G	0	C	0	17	<b>?</b>	1.8	-		ſ	4 1
NET RESULT	0	0	0	0	-2	17	]   1   1	E -	L	9		
AUTHOR12ED	•	0		0		22	! !	20	:			47
GRAND TOTAL	1										1	
ENTERING	1	0	•	1527	,	3320	1	2111	•	1443	•	8401
- SEPS	0	0	158	1369	115	3205	278	1833	7.3	1370	624	1111
(EXP)	0	9	158	1369	115	3205	278	1833	73		624	1111
- UPG 0UT	489	-489	341	1028	287	2918	4.6	1787	0	_	1163	6614
+ 11PG 1N	489	0	489	1517	341	3259	287	2074	46		1652	8266
NET RESULT	. 0		07-	1517	- 6-	3259	-37	7074		i	-135	H266
AUTHORIZED		0 !	: :	1517	!	3259	:	2074		1416		H266

FIGURE 15: S2 Base Supplies for Year 2

6ASE 1 2									-									
	-	2	-	7	5	•	^	Œ	6	01	Ξ	12	13	<u>.</u>	15	9 1	17	TOTAL RPOOL
LEVEL 3				-			:			:	:	!						
INIT. SUPPLY	0	-	10	0	0.1	10	0.1	<u>.</u>	0 1	0.1	٠,	~	<u> </u>	=	=	=	-	151
- 51.65	0	10	!-	0	0	0	10	0	0	0	0	0	0	0	0	0	0	-
UP. 6 011	0	0	0	-	-	-	С	0	0	0	0	0	0	_	-	-  	-	,
100 1 A 3 1 -	0	0	0	0	0	0	٥	0	-	_ 	0	-	a	0	0	0	0	~
NI KABI +	0	0	0	٥	0	0	O	0	c	c	٥	0	0	-	-	ا م	-	
11 11 •	0	-	-	-	0	0	6	0	0	0	0	0	0	-	-	0	7	•
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	;	1	1	;	1	;	;	1	!	1	:		1		;	1	-	
NEW SUPPLY	-0	-	0	01	6	5	10	01	6	5	6	9		12	12	0	1.6	149
ANTHORIVED	0	-	9	0	יט	01	9	10	0.1	1.0	0.1	10	0	01	10	8	0	149
		-					\  :					:	, .	:	;	1	:	
OFFIRMO	c	_	<b>C</b>	o	-	_	C	0	-	_	_	<b>*</b>	~	-2	-2	-2	9	0
EVE! 5							İ		!	ļ	!	1		j			!	
INIT SUPPLY	0	~	33	32	30	5.7	2.8	2.7	25	?	7.8	27	52	32	33	33	4.2	4 S 4
5415	0	0	-	_	-	-	c	0	0	O	0	0	٥	0	٥	ا.	ا	- -
- RUIATEES	0	0	0	0	0	0	0	0	0	=	0	0	0	-	~	7	7	7
- 1016 001	0	0	c	0	0	0	O	0	0	0	0	0	٥	٥	-	0	-	2
• UP 6 1N	0	0	0	-	-	_	0	0	0	0	0	0	0	-	-		_	^
* LEVY OUT	0	0	c	0	0	0		0	0	-	_	-	_  	0	0	0	اه	5
• ROTATLES	0	9	1	-	i –	_	0	0	0	0	0	0	-	0	0	0	0	❖.
+ 1 F V Y E.	0	0	c	0	0	С	0	c	0	c	c	0	0	_	~	-	2	2
- 1	0	0	0	0	-	0	c	٥	-	0	0	G	0	0	ت	0	0	-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	;	:	:	;	!	:	:	!	:	I I I								
NEW SUPPLY	0	7	34	33	32	30	27	27	25	2.6	27	56	25	33	33	32	42	455
AUTHOR 1 2ED	0	7	32	32	32	32	3.2	32	32	3.2	32	32	35	32	32	56	32	476
						:			1	1	1	!		1 1	;	;	!	1.

FIGURE 15: S2 Base Supplies for Year 2

PERIOD 13 ACTUAL SUPPLIE	אר פח	31744	S FOR	SKIL	اد ه						i							i	į
6456	-	2	e	7	5	9	^	æ	6	0-1	=	12	=	<u> </u>	51	9	12	TOTAL RP	POOL
LEVEL 3	0	-	01	0.1	-	-	0	2	10	0.0	6	7	7	. =	-	=	7	151	
- SEP'S	0	် 	-	0	la	0	0		0	0	0	0	0		0	0	0	-	
160 930	0	0	0		-	~	0	0	0	٥	0	Ó	0	-	-	-	-	,	
THO TYTHE	0	0	0	0	0	0	٥	0	-	-	٥	-	0	0	0	٥	0		
+ LEVY IN	0	0	0	٥	٥	0	O	0	0	С	c	0	0	-	-	0		п	
11 11 +	0	0	-		0	0	0	0	0	0	0	0	0	-	-	0	7	9	
* 1	1	1	! !	1	ï	1	1	1 2	;	:	1 1		:	:	:	;	:	-	
NEW SUPPLY		-	0.	10	-	6	0.	0.	٥	0	6	9		12	1.2	101	91	641	
AUTHORIZED	0	-	10	10	_	10	10	10	0.1	0.1	0	10	10	10	10	8	10	149	1
			1			1 4 6	1		1	1		*		1 1			•		
0 E 1. KNO	0	C	0	0	_	-	С	0	_	-	1	7	3	-2	-2	-2	9	0	
7																			
INIT. SUPPLY	0	9	33	32	30	29	2.8	2.7	25	27	7.8	27	25	32	33	133	4.2	454	
- SEPS	0	0	-	-	-		c	0	0	0	٥	0	٥	0	0	0	0	7	
- ROIATEES	0	0	0	0	0	0	0	0	0	=	0	0	0	-	2	7	7	,	
- UPG 0UT	0	0	٥	0	0	0	0	0	0	0	0	C	0	0	-	0	_	7	
. UPG IN	0	0	0	-	-	-	0	0	0	0	0	0	0	-	-	-	-	7	
- LEVY DUT	0	5	6	0	٥	0		0	0	-	_	-	_	0	0	0	0	S	
• ROIVILES	0	9	^	-	_	_	0	0	0	0	0	٥	_	0	0	0	0	•	
+ L.F.V.Y. FIX	٥	0	C	0	0	O	0	0	0	O	ú	0	0	1	2	c	7	S	
+ 11 12	0	0	0	0	-	0	0	0	0	0	0	c	0	0	ت	0	0	-	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														-	1				
NEW SUPPLY	0	7	34	33	32	30	27	27	25	5.6	27	56	52	33	33	32	4.2	455	
AUTHORIZED	اه	2	32	32	32	32	32	32	32	32	32	32	32	32	32	26	32	476	l
1 1 1 1 1 1 1 1 1 1 1	1 6 1	:	;	i f	1	;	!!	1 4	1	: :	:	1	:	1		:		7	
DEMAND	0	-	-7	-	0	2	5	2	,	Ŷ	5	9	7	-	-	9-	-10	2.1	
																			ļ

FIGURE 15 (continued)

BASE	-	~	~	7	S	•	7	Œ	۰	01	=	12	<u>.</u>	<del>-</del>	15	9 -	17	TUTAL R	RPOO
ונאנו ז										! 	! 	ļ						i 	
INIT. SUPPLY	0	-	01	0	6	•	01	0.	٥	>	5-	•	7	12	12	0	9-	149	
- SEPS	0	0	  -	0	0	0	0	0	0		0	0	0	0	0		0	_	
- UPG OUT	0	0	0	-	0	0	-	<b>-</b>	0	0	0	0	0	-	-	٥	-	•	
- LEVY GUT		=	-	-	-	-	_ 	-	-	-	0	0	0	0	0	0	0	_	
· LEVY IN	0	٥	0	¢	0	0	٥	0	0	٥	0	0	0	7	7	-	~	æ	
NI 11 •	0	0	-	0	0	0		0	0	c		0	0	_	_	0	2	5	
	1	1	!	:	1 2	1		!	1	1	:	1	!	1	-		:	•	
NEW SUPPLY	0	-	٥	8	9	0	8	æ		. 8	6	٥	1	=	-	-	20	1.57	
AUTHOR12CD	0	-	10	10	10	10	10	10	01	01	01	10	10	01	01	80	-10	149	
	1 1		-				:	;	:	:		1			:	1	;		
QUEN30	0	0	-	2	2	2	2	2	~	2	-	7	r	7	7	7	07	2	
5 13/31																			
INIT. SUPPLY	0	3	7.0	3	32	30	27	27	25	26	27	26	25	33	33	32	42	455	
- SEPS	0	0	_	-	_	-	0	0	C	Ç	0	0	0		0	a	0	7	
- ROTATEES	0	0	0	0	0	0	0	0	0	0	ם	0	0	-	2	7	0	s	
- UPG 60T	0	0	9	O	0	0	0	0	ဝ	0	0	0	0	0	0	٥	~	-	
11 940 •	-	5	0	-	0	0	-	_	0	c	c	0	0	- 	-		_ 	•	
- LEVY OUT	0	3	0	0	0	0	_	_	_	-	-	-	-	0	0	0	0	1	
+ RUTAILES	0	0	2	-	-	-	0	0	0	c	0	0	0	0	0	0	0	5	
· LEVY IN	O,	C	0	0	0	0	c	0	c	c	0	0	0	-	7	0	7	7	
		:	:	1	-			;	:	:	:		:	:	:	:	:		
MEN SUPPLY	0	3	35	34	3.2	30	27	27	54	52	97	52	74	7	34	30	46	454	
AUTHORIZED	0	~	32	3.2	32	32	32	32	32	32	32	32	32	32	32	56	32	476	
				  -  -													1		İ
					•	•	•	٠	•	,		,	•						i

FIGURE 15 (continued)

INII. SUPPLY	0	٦	CF	39	39	36	+0	33	7	÷.	٦.	7	35	30	Ŧ	36	43	557
- SEPS	0	0	_	_	0	0	0	0	0	0	0	0	۵	0	0	٥	0	7
- PUTATEES	0	c	0	0	0	0	0	c	c	С	=	0	C	~	~	~	=	01
• UPG 114	0	3	0	0	0	0	0	0	9	0	, i	0	0	0	0	0	-	_
- LEVY UUT	0	0	0	0	-	-		0	-	-	-	-	-	0	0	0	0	€0
* ROIAILES	0	9	~	7		2	-	_	0	0	0	0	0	0	0		0	0
+ LEVY IN	c	o	c	0	٥	0	٥	0	0	c	c	0	0	~	~	0	3	80
	1			1			:	;	-	1	:			1			:	
NEW SUPPLY	0	6	7	<b>0</b>	40	10	34	34	33	33	33	33	<b>T</b>	39	7	34	<i>5</i>	556
AUTHORIZED -	0	-	38	38	38	3.8	38	38	3.8	3.8	38	38	38	38	36		38	995
	1		1	;	! !	:	;	!	;	:	:	:	;	;	;	1	:	-
Of MAILD	0	c	7	-2	-2	-2	+	7	r.	2	S	2	7	-		-	9-	10
LEVEL 4		!					1		!	:	!	!	1			-		
INIT. SUPPLY	0	0	ı,	ß	s	ഹ	S	7	9	9	7	'n	S	'n	S	•	•	8
- SEPS -	0	-	0		0	0	-	0	0	0	0	0	0	٥	0	0	0	<b>-</b>
- ROTATELS	0	0	0	0	0	0	c	0	0	0	0	0	0	0	0	0		-
- LEVY 00T		1	0	0	0	-	0	0	0	0	0	0		0	0	6	0	-
. KOTATLES	0	c	-	0	0	0	0	0	0	0	0	0	0	<u>.</u>	٥	0	0	-
. LEVY 114	1	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	-
3 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7								-					   					
MER SULLI	>	>	٥	n	n	•	٢		٥	0	•	n	n	n	n	•	•	0
AUTHURIZED	0	0	9	9	9	•	9	۰	4	۰	9	9	۰	۰	۰	5	•	2
							1 1	1			1 6 1					,	1	1
•	,																	

FIGURE 15 (continued)

TOTAL RPOOL 146 476 555 457 566 456 ٥-0 2 -17 900 0 0 - 0 0 0 32 29 26 - 0 0 . . . . . 0 o -7 00 0 0'0 0 35 0000 32. ī 23 0000 o 0' م 0 0 0 0 0 0 1 6 0 0 24 32 0 0 0 0 33 0000 00 0000 0 1 4 8 E 0 0 0000 000 138 0000 00000 00,000 - 2 80000 38 PERTOD 15 ACTUAL SUPPLIES FOR SKILL 0 ... إن 00000 2 32 Ξ 7 NO CHANGE 00000 0 00 0 HASE - LEVY 00T INIT. SUPPLY DEMAND * RDIATEES NEW SUPPLY AUTHORIZED DEMAND INIT. SUPPLY ROTATEES AUTHORIZED DEMAND LEVIL 7 INIT. SUPPLY NEW SUPPLY - ROTATLES MEW SUPPLY ROIATE !. S ROTATELS AUTHORIZED - LEVY UUT + LEVY IN - LEVY 011 · LEVY IR + LEVY IN

FIGURE 15 (continued)

PERIOD 16 ACTUAL SUPPLIES	SUPP	1165	FOR	SKILL	9														{
UASE	-	~	-	7	5	•	. ~	80	٥	10	=	12	13	*	15	9 7	17	TOTAL	RPOOL
רבאנן 3	. no C	NO CHANGE	       					!			1			]				1	
LEVEL 5	'	1.	;	;	7	1 5	7.6	2.7	2.4	24	25	24	23	35	35	29	4 0	457	
INIT. SUPPLY	اد	٦   ٥	ج ا	5			۰	٦	· -		0	0	0	-	-	<u> </u>	٥		
ROTATEES	<b>5</b> 6	<b>5</b> 0	<b>3</b> 0	> 0	ء د	ه د	o c	· c	<b>-</b>	0		-	-	c	0	0	0	7	
TEVY OUT			-  -	-	-	0	0	0	0	0	0	0	0	0	0	0		~	
1 × 10 × 1	. c		• 0		0	0	0	0	0	0	٥	0	0	-	-	0	<u>~</u>	<b>-</b>	
١.	,						1 1				-		-	: :	1	1 6	; ;	1 1	
A Leading Man	0	~	3.6	35	34	30	27	27	23	24	4.2	23	22	35	35		-		
AUTHORIZED	0	7	32	32	32	32	32	32	32	32	32	32	32	32	32	07	32	•	
	•	-	1 7	:	:	:	:	•	1		,	-		-		<u> </u>	1 · · ·		
	0	-	1	-	2-	2	5	2	6	8	<b>3</b> 0	•	0	<u>.</u>	-	-5	6	6	
		1		1															
LEVEL 7	9		:		3	9	7	4	-	33	33	33	34	39	7	33	7	555	
INIT. SUPPLY	9	٠						6	,		0	0	0	-	2		~	4	
- ROLATEES	<b>o</b> 1	<b>3</b> :	۰ د	<b>&gt;</b> (		٠ د	- د	, -	· c	· c	· c	-	0	0	0	0	٥	S	
- LEVY OUT	5	ا	٠		- -	- -	-	-		-	1	-	_	0	0	0	0	•	
+ ROIAIEES	•	=	<b>-</b>	<b>-</b>	- (	- (	- (	- 6	: 0	o c	, ,	٠ ،	· c	_	7	0	2	S	
+ LEVY IN	0	0	٥		ار ا		-		-!										
		<b>!</b>		:	1	!		! !	1 4		, ;		9	90	7	3.2	7	555	
MEW SUPPLY	0	~	7	9	Ç	9	34	*	77	7		3				; -	٦	1	
AUTHURIZED	0	~	3.8	38	38	38	9	8	œ n	£	2	s c	2	ָ ר ר	ם י		1	, ,	
	-		1						*							-			
DEHAND	0	0	7	-2	~	-5	Ŧ	7	S.	'n	ហ	.c	7	-	7	•		-	
LEVEL 9	ON	NO CHANG	w																

FIGURE 15 (continued)

NUT   SUPPLY   O   O   O   O   O   O   O   O   O								
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	œ				-		~	146
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0		0	}	ĺ	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0				-			3
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0				0			3
0 1 11 10 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9	0			0	0	2 0	- 1	2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	! ! !	•	:	1		' : =		ı a
0 3 36 35 34 30 27 27 23 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	[		-	,			7 3
0 0 0 -1 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		- ;	- ;	- :	ı	٠	2 !	0 I
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2				2		-10	i
0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								
0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	27 2	3 2	2	2		7		457
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0		0			0	0	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	c	İ			-	-	0	12
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0				- :		- (	<b>~</b> :
0 0 0 1 2 0 0 0 0 1 1 1 1 1 2 0 0 0 0 0	c			ĺ	c		0	3
0       3       36       34       30       26       28       24       25         0       2       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       32       33       33       33       33       33       33       33       33       33       33       33       33       33       33       33       33       33       34       34       34       34	<b>-</b> c		7 0	0 0	c -	0 0	0 0	- -
0 2 32 32 32 32 32 32 32 32 32 32 32 32 3								1
0 2 32 32 32 32 32 32 32 32 32 32 32 32 3	0 28 2	4 2	5 2	7	36	1 9	_	S
0 3 41 40 40 40 34 34 33 33 33 33 33 33 33 33 33 33 33	2 32 3	2	2 3	•	32	-	32	, 994
0 0 1 40 40 40 34 34 33 33 30 0 0 0 0 0 0 0 0				•	1	•	١,	ıı.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			•	-	-	}	~	æ
0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 34 3	e 6	n	•		, 	± ₹,	555
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0				0		C ,	-
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0				-	-		16
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 (			- 0	٥ ،		o (	v :
0 3 42 41 41 41 36 36 34 34 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	,	İ			) - - -		,	٠. ٥
0 3 42 41 41 41 36 36 34 34 34 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0		;		;			v 1	
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0 0 0 6 5 5 4 4 7 6 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 38 3	3	8 3		8	9	38 5	un i
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 2	, ,	-			-3 -2	9-	0
0 0 0 6 5 5 4 4 7 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	i i					,		
	<b>3</b> (		,	5 2	ıs (	9 6	0 (	8.5
	ا		ļ		0		0	
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FIGURE 15 (continued)

PENIDD IS ACTUAL SUPPLIES	AL SU	P L 1E	S FOR	SKIL	اه				.									-
BASE		~	n	<b>:</b>	'n	9	7	89	۰	10	=	12	13	<b>.</b>	15	91	17	TOTAL RPOOL
LEVEL 3													. 1			,		
INIT. SUPPLY	0	_	-	10	æ !	6	=	æ	3	ا م	æ	اد	_	~	-    -		20	-45
- SEPS	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	_
- ROIATEES	0	0	c	0	0	0	0	0	0	0	0	0	0	0	0	7	-	8
- UPG OUT	0	0	_ 	-	-	0	0	0	0	0	0	0	0	-	  -	0	_	9
- LEVY CUT	0	0	c	0	0	C	0	0	0	D	0		0	0	0	0	0	-
• ROTATEES		0	7	~	-	0	O	0	0	0	0	0	0	0	0	0	0	8
· LEVY IN	0	c	0	0	0	0	c	0	0	0	0	0	0	0	0	0	_	_
II IN	0	0	0	0	0		0	0	0	0	0	0	0	~	-	0	7	S
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NEW SUPPLY	0	-	-	=	8	0	6	æ	8	8	8	2	-	-13	1	-	21	143
AUTHORIZED	0	-	5	-	0	10	10	10	0	07	0 1	10	10	10	10	0	10	141
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DEMAND	0	0	3	-	2	2	2	2	2	2	7	'n	٣	-3	4	-	-1-	-2
LEVEL S	.								j									
INIT. SUPPLY	0	٦	36	36	34	30	28	28	24	25	25	7.4	2.1	36	36	18	5	458
- Str5	0	0	-	~	-	7	0	0	0	0	0	0	0	0	0	0	0	7
- HOTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	_	-	1 9	0	18
- UPG 601	0	C	c	0	0	٥	0	0	C	O	0	0	0	0	0	0	-	-
WI DAD +	0	3	-		-	0	0	0	0	0	٥	0	0	-	-	0	-	•
- LEVY OUT	0	.c	c	0	0		0	0	-	c	_	0	-	0	0	0	0	7
+ ROIATEES	٥	э	2	,	ĵ	7	3	1	3	0	0	0	0	0	0	0	0	81
+ LEVY IN	0	0	0	0	0	0	0	O.	0	0	٥	0	0	_	_	0	2	*
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NEW SUPPLY	0		3.9	39	37	32	30	29	2.6	25	24	4.5	20	37	37	2	5.6	459
AUTHOR12ED	0	7	32	32	32	32	3.2	32	3.2	32	3.2	32	32	32	32	0	32	450
		-	-	-	:		-			1	-		;					
0E H 4 N D	0	7	9-	-1	-5	0	7	9	•	1	8	80	1.2	5-	5-	-2	-24	6-

FIGURE 15 (continued)

INIT. SUPPLY	c	~	4.7	4.3	7	7	36	34	34	34	34	33	34	39	7	2.1		554
5.4.35	5	,	-	-	•	0	Ξ	0	0	0	0	0		0	0	0	1	7
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• 0P6 IN	0	0	0	c	,	0	0	0	c	c	0	0	ì	c	0	0	,	- 
- 18v7 OUT	0	0	2	0		-	-	0	-	С	0	-		С	0	0		5
* RUIAILES	0	0	7	. 7		2	_	2	7	2	7	7		0	0	0		7
+ LEVY IN	0	٥	٥	0	ļ	0	0	c	0	c	٥	0	ĺ	-!	_	0		2
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	ם ב		~   ~	42		- ~ - +	36	3.8	3.6	3.6	3.6	34	35	39	ļ <del>,</del>	~		553
AUTHURIZED	0	7	34	3.0	34	3.8	3.8	38	38	3.8	3.8	38	ì		38	0		515
1 3 1 1 1 2 1 1 1 2 5	•		1 1 6	1			1			1 ·	1	1				1	1	
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LEVEL 9																		
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FIGURE 15 (continued)

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INIT. SUPPLY	0	-	<i>-</i>	=	œ	8	œ	0	8	90	£	ហ	-	£.	-	~	2	~ *	
- SEPS	٥	0	-	0	0	0	0	0	0	0	0	0	0	0	c	0	.¦c	!_	
- ROTATEES	0	0	0	0	0	0	0	0	0	0	0	0	0	-	·	0	٠ -	• •	
- UPG 00T	0	0	-	-	-	0	0	0	0	0	0	0	0	-	-	0	-	١	
+ ROTATEES	C	-	-	٥	0	0	0	o	c	0	0	0	0	0	0	0	0	~	
• 11 IN	0	0	0	0	7	-	0	0	0	0	0	0	0	-	-	0	0		
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NEW SUPPLY	0	2	13	0	0.1	6	æ	8	8	8	8	2	1	12	13	-	67	7	
AUTHOR12ED	0	-	=	=	-	-	0	-	01	10	10	10	10	10	0	0	C	7	
	1	;	:	1	ŀ	;	1	;	1	1	:	1		;	;		:		
DEMAND	0	7	-	0	0	-	2	2	7	2	2	5	£	-2		7	0	0	
LEVEL 5					٠														
NIT. SUPPLY	0	3	3.8	39	37	32	30	29	26	25	24	24	ŀ	37	37	~	56	454	
- SEPS		0	-	-	-	-	c	С	c	c	0	0		C	0	0	0	*	
- ROTATEES	0	0	c	0	0	0	0	0	0	0	0	0	1	7	2	0	0	7	
- UPG 001	٥	0	0	0	0	0	0	0	0	0	0	0		0	0	0	-	_	
• UPG 11	0	0	-	-	-	0	0	C	0	0	0	o		-	-	0	-	9	
- LEVY OUT	0	0	0	0	0		_	_	-	-	-			0	0	0	0	^	
+ ROTATEES	0	0	_	-	0	-	' <b>-</b>	c	0	0	0	0		0	0	0	ٔ د ا	 	۱,
+ LEVY IN	c	0	c	0	0	0	0	0	0	0	0	0	0	7	~	0	-	^	
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NEW SUPPLY	0	٦	3.9	40	37	31	30	28	25	7 4	7.3	23		3.8	38	7	5	460	
AUTHOR 12ED	0	7	3.2	32	32	32	32	32	32	32	32	32	32	32	. 2 C	0	32	450	
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6:17									֡										

FIGURE 15 (continued)

INTL. SUPPLY	0	6		4.2	4.2	42	3.6	3.8	36	34	36	7.0	35	39	7	~	4	5.5.3
- 56.15	0	C	_		0		0	0	c	0	0	0	0	0		0		2
- ROTATLES	٥	0	0	0	0	0	0	0	0	0	0	0	0	7	7		· c	1 7
* UPS 18	٥	0	0		٥	0	O	0	0	0	0	0	0	6	0	0	-	-
- LEVY 00T	c	٥	С		-	-	-	`	-	_	-	0	-		•	0	- ح	• «
* ROTATEES	9	2	-		-	-	0	-	0	6	-	٦	-		-	٦	,	
+ LEVY 1N	0	0	O	0	0	0	0	0	0	0	0	, c	0	۰ ر	۰ ۸	•	3	ra
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L. NEW SUPPLY	0	m	4 3	45	4.2	42	35	37	35	35	3.5	7	34	30	3	•	5	5 5 2
AUTHOR12ED	0	•	38		38	38	38	36	38	38	38	38	38		38	0		535
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DEMAND	0	<b>3</b>	-5	<b>≠</b>	Ŧ	3 ·	-	-	-	2	7	7	7	-	7	-1	-15	-11
LEVEL 9										j							1	
INIT. SUPPLY	0	C	4	•	9	9	5	7	~	•	7	'n	s.	ď	ď	0	٥	ď
- SEPS	0	_ _	-	0	0	0	0	0	0	0	່ດ ∷	0	0	 	-	-	١	:-
- KOTATEES	0	3	0	0	0	0	0	0	0	0	0	0	0	· <del>-</del>	· c	0	; <b>-</b>	• ^
- LEVY OUT	0	0	٥	0	3	0	0	-	0	0	0	0	-	. -	\  -	0	. .	• -
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FIGURE 15 (continued)

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BASE	-	~	C.	7	S	9	7	8	٥	0.1	-	1.2	13	7	15	9	17	TOTAL	RPOOL
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- SEPS	0	<u></u>	0	-	_	0	9	3	0	C		0	9	0	0	0	0		
- 80141865	С	0	0	0	0	C	0	C	0	0		0		-	-	0	-	m	
TUP OUT	0	0	- 	-	-	-	-	-	-	_ 	ļ	0	-	-	-	0	2	-	
- LEVY OUT	0	C	С	0	0	0	0	0	0	0		0		0	0	0	0		
· RUTATEES	0	' = !	-	0	0	0	0	0	0	0		-		0	0	0	0	7	
· LEVY IN	0	5	c	0	0	0	c	C	۵	C		0		-	C	0	0		
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NEW SUPPLY	9	7	-13	0-	-	0-	0-	0-	_	1		9	5	Ξ	=	-	91		
AUTHORIZED	0	-	10	0	10	0.1	0	<u>د</u>	0	0	10	0	0.	10	01	0	0	141	
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1M11 - SURPLY	0	7	7	7	`	-	2	97	7.2	. 7	7	7	7	ב ר	E T	7	7	0	
- SEPS	0	0	_	-	-	-	-	-!	_	-	_[	0	0	0	0	0	0	5	
- ROTATEES	0	0	0	0	0	0	٥	0	0	C	0	0	0	2	9	0	0	ស	
100 9d0 -	0	0	-	-	0	0	0	0	0	c	c	0	0	0	0	0	-		
• UPG 111	0		-	-	_	_	-	_		_	-	0	-	-	_	0	7	<u>+</u>	,
- LEVY OUF	0	С	0	0	0	-	0	-	0	-	_	-	-	0	0	0	٥	9	
	c	0	2	-	!	  -	٥	0	0	=	0	0	٥	0	0	0	0	5	
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	1	;	1	;		;	;	1	-	1		1	1	1	1	:		1	
MEN SUPPLY	0	~	40	40		31	30	2.7	25	7.3	2.5	2.2	20	3.0	38	2	63	462	
AUTHORIZED		2	32	32	32	32	3.2	32	32	32	32	32	32	32	32	0	32	450	
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ONAMBO	0	-	8.	8	9-	-	7	2	1	٥	10	10	17	9-	9-	-2	-7-	-15	
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FIGURE 15 (continued)

- SEPS - ROIAILES		3	7	4.5	~	~	2	37	35	35	35	т Т	4.	34	~	~	53	55.2
- ROTATCES	0	0	-	-		0	0	0	0	0	0	0	0	0	0	0	o	~
	0	0	С	٥	0	0	0	0	0	0	0	0	0	2	r	0	0	S
- UPG 0UT	0	0	0	0	0	0	0	0	0	0	0	٥	0	0	0	0	-	-
• UP 6 111	0	C	-	~	0	٥	0	.0	o	0	0	0	0	0	0	0	_	~
- LEVY OUT	0	0	0	0	-		_	-	_	-	! 	-	-	9	0	0	0	0
HOTATEES	0	0	C	-	7	-	_	0	0	0	0	0	0	0	0	0	0	S
· LEVY IN	0			0	0	0	0	0	0	! 	0	0	0	2	_	0	7	-
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NEW SUPPLY	0	-	7	7	42	42	35	36	7.	3.4	34	33	33	39	F	~	57	551
AUTHOR 1 2EO	0	~	30	38	38	38	38	38	3.8	38	3.6	38	38	38	38	0	38	535
		:		:		:		1 1 1										
DEMAND	0	0	5 1	-5	7	7	٣	2	7	7	Ŧ	'n	s	-	-3	7:	6 -	91-
V 1 C 11 D 1 V			1	1	1	1	4	1	1		1	5	1	7	4	6	°	5
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- ROTATEES	0	٥	c	0	0	0	0	0	0	0	0	0	0	0		0	_	~
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- LEVY DUT	0		a	0	0	0	0	0	0	0	0	-	0	0	0	0	0	_
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+ LEVY IN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
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FIGURE 15 (continued)

BASE		2	ſ	3	5	9	,	æ	6	10	7 1	12	13	*	5	٩	17	TOTAL	RPOOL
LEVEL 3									; ;	! 	i   	) ! !	! !	!	1				
INIT. SUPPLY	0	~	13	0	10	0	01	10	7	^	7	9	'n	7	~	~	9	136	
• SEPS	0	2	_	-	0	0	_	c	0	-	0	0	0	0	0		۰ ا	   	
100 240	0	0		~	2	~	7	7	2	-	2			~	~	0	~	27	
11 111	_	0	-	•	2	2	3	2	5	-	0	c	0	0	0	0	0	1~	
								1	!	:	1	:	1	;	1	•	1	:	
NEW SUPPLY	0	~	0-	01	0.1	01	01	10	01	æ	. 5	S	-	-	6	_ 	:	126	
AUTHORIZED	0	-	01	01	10	9	10	0	10	0.1	0	0	10	0	10	0	07	7	
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0E MA140	0	-			٥	0	٥	٥	0	7	2	2	٥	-	-	-	-3	15	
EVELS																			
INIT. SUPPLY	0	~	40	40	38	31	30	27	25	23	22	22	20	38	38	7	63	462	
· Strs	0 -	c	7	~	- 2	~	2	~	_	_	_	_	-	0	0	0	0	17	
- RUTATLES	0	0	0	0	0	0	0	0	0	0	0	0	0	_	2	0	0	,	
- uPG 001	0		-	-	٥	٥	c	٥	c	0	С	0	0	-	_	0	-	Ŋ	
* UPG 1%	0	0	~	~	7	7	7	~	7	_	~	_	-	~	2	0	٦	27	
L. LEVY OUT	0	0	0	0		0	0		0	0	0		-	0	0	0	D	٣	
* ROTATEES	0	0	-	_	-	0	0	0	0	С	0	0	0	0	0	0	0	7	
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MEN SUPPLY	0	~	4.1	40	39	31	30	2.6	3.6	23	2 3	21	61	38	38	7	47	467	(
AUTHORIZED	0	~	32	32	3.2	32	3.2	32	32	32	32	32	32	32	32	0	32	450	
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FIGURE 15 (continued)

- SEPS - ROTATEES		7	4.3	43	4.2	4.2	35	36	34	34	34	33	33	39	Ŧ	7	5.7	551
- HOTATLES	၁	0	-	_	-	-	-		-	0	0	0	0	0	0	0		1
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- SEPS	0	0	_	-	-	0	0	0	0	0	0	0	0	0	0	0	0	
- MUTATEES	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	_
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FIGURE 15 (continued)

PERIOD 22 ACTUAL SUPPLIES FOR SKILL &

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FIGURE 15 (continued)

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- SEPS	0	0	-	-	-	0	0	0	0	0	 	0			 		0	-
- MOTATLES	0	0	С	0	0	0	0	0	0	0	0	0	0	_	7	0	~	9
- UPG OUT	0	0	0	0	0	0	0	٥	0	0	0	0	0	0	0	0	  -	_ 
+ 1166 114	0	c	_	_	0	0	0	0	0	c	0	0	0	c	0	0	-	~
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. MOTATES	0	0	2	-	2	0	_	c	0	0	0	0	0	a	0	0	c	•
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AUTHORIZED	0	~	3.8	38	38	38	38	38	3.8	38	38	38	38	30	38	0	38	535
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ر ه					,													
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- St.PS	0	0	-	0	0	C	0	0	0	0	0	0	0	0	0	0	0	-
- ROTATEES	0	0	0	٥	0	0	0	0		0	0	0	0	0	0	0	_ 	! 
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- LEVY 00T	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	-
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+ LEVY 114	0	0	0	0	0	0	0	0	0	0	0	0	٥	c	0	0	_	_
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FIGURE 15 (continued)

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FIGURE 15 (continued)

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INIT. SUPPLY	5 d 35 -	- ROTATEES	- UPG OUT	+ UPG 13	- LEVY DUT	+ ROTATEES	* LEVY IN		NEW SUPPLY	AUTHOR12ED		OEMAND	LEVEL 9	INIT. SUPPLY	- 5EPS	- HOTATEES	• UPG 114	- LEVY OUT	* ROTATEES	* LEVY IN		NEW SUPPLY	4117110017114

FIGURE 15 (continued)

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FIGURE 15 (continued)

LEVEL 7	٥	٦	79	-0 -7	42	7	32	34	=	ĩ	32	30	-	40	42	~	-	5 £
- SEPS	0	0	-	-	- 	-	_	-	_	0	0	0	c	a	0	0	0	7
- ROTATEES	0	C	0	0	0	0.	0	0	0	0		0	0	_	2	٥	~	9
. UPG 001	0	0	-	0	0	٥	0	0	0	0	0	0	0	0	0	0	-	~
S 196 0	0	c	_	-	0	0	0	0	0	٥	0	٥	0	-	-	٥	_	~
- LEVT 00T	0	3	0	0	0	-	-	-	-	0	_	0	-	0	0	0	0	•
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· LEVY IN	0	0	0	0	0	ò	0	0	0	0	0	0	0	-	8	a	٦	43
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NEW SUPPLY	0	7	4.6	47	42	10,	31	33	58	15	-	30	30	4.1	43	7	19	540
AUTHORIZED	٥	n	3.8	3.8	3.8	38	3.8	38	38	3.8	3.6	38	30	38	38	0	3.8	535
	:	:	:	:	:	:	:	:	1 2 5			* .		1	:		:	1 - 1
DEMAND	0	0	9	6	7	-2	^	S	6	7	7	æ	æ	-3	5	-2	-23	-5
LEVEL 9	;																	1
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- SEPS	0	0	-	-	0		0	c	0	٥	0	0	0	0	0	٥	0	~
+ UP 6 12	a	0	-	٥	a	a	0	0	0	0	0	0	0	0	0	a	-	~
- LEVY OUT	0	٥	0	0	0	0	0	0	0		_	0	0	0	0	0	٥	~
+ LEVY IN	0	0	-	-	0	0	0	0	o	o	0	0	0	0	0	0	0	~
		;	:	!	1	•		,	1	1 2								
NEW SUPPLY	0	0	æ	s	2	S	ທ	1	9	7	₹	2	2	*	*	٥	<b>*</b>	90
AUTHORIZED	a	0	•	•	<b>4</b> 1	•	•	•	•	9	٠,	•	۰	•	9	0	•0	₩
1 - 1 - 1 - 1 - 1 - 1		•		-				-	-			1 1	1					
DEMAND	a	0	-3	-	-	-	-	7	-	~	~	-	-	7	7	0	æ	*

FIGURE 16: Base 16 Supplies and Authorizations in Skill 6 for S1 and S2

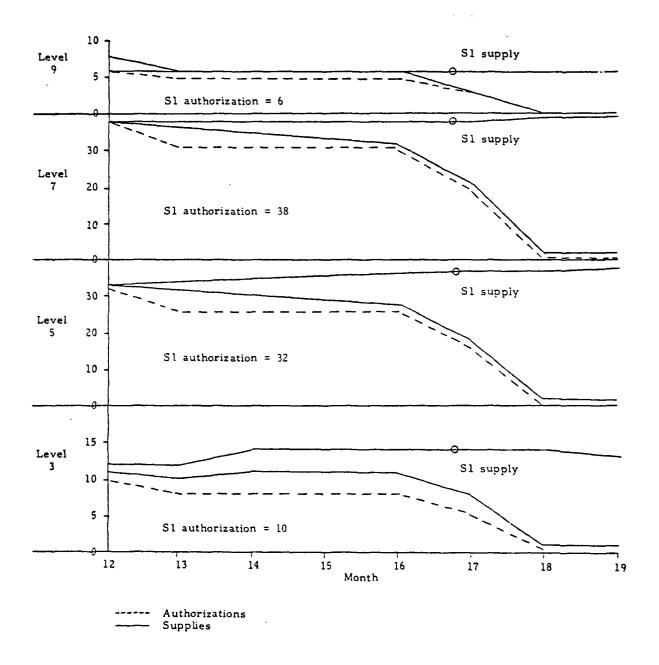


FIGURE 17: Base 16 Supplies and Authorizations in Skill 8 for S2

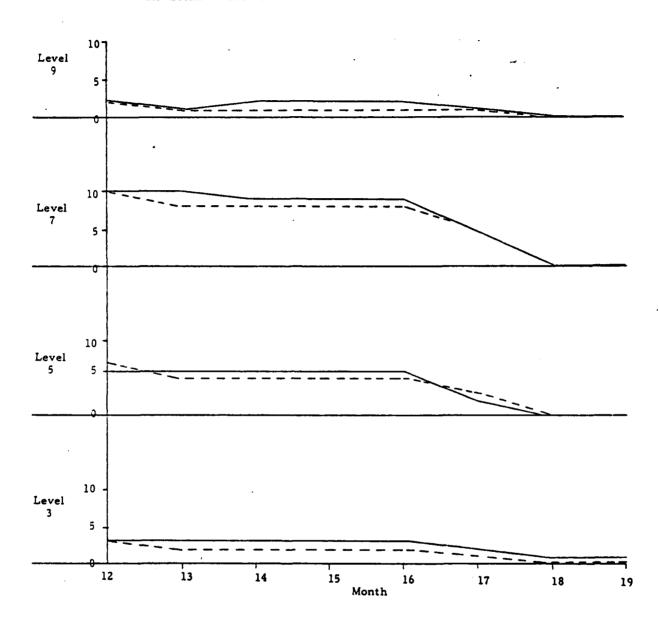


FIGURE 18: Base 17 Supplies and Authorizations in Skill 8 for S2

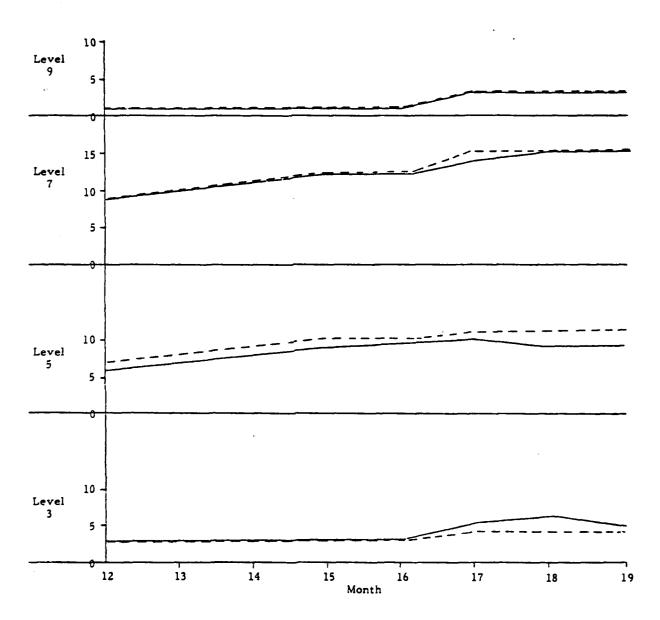


FIGURE 19: S2 PCS Reports for Years 1-4

FROM SKILL 1 TO 91

-	LEVEL 1	LEVEL 3	LFVFL 5	LFVEL 7	LEVEL 9	TOTAL
INTHA-(ONUS	4011	3651	2715	64	20	8021
TO SCHOOL	4011	c	7	2	33	4023
FEOR SCHOOL	0	3409	٥	0	æ	3421
L+ V Y	0	242	887	42	7	211
UVERSEAS TO CONUS	0	922	3487	2689	169	7695
Lo SCHOOL	C	Ċ	Ξ	C	0	0
KOIAIION	Ð	422	3484	2683	595	7684
OTHER	0	0	€	9	2	
						•
CUBUS TO OVERSEAS	<b>C</b>	958	1447	2585	585	7125
FROM SCHOOL	0	159	<u> </u>	0	0	159
L { V Y	Ū	662	2997	25,85	. 585	4964
DVERSEAS TO OVERSEAS	0 8	0	C	0	0	
letal	4011	55.31	6.476	5 138	1202	27841

S SEFERTS FOR YEAR 1

FIGURE 19 (continued)

٠.

TOTAL	7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	246 0 246 0	270 14 256	0
LEVEL 9	70	24 0 24 0	21 0 21	47
LEVEL 7	0000	- 0 - 0	901 0 901	217
5 1.2.1.	5625	4	\$ I \$	=   -
3 11A 31	16 16 0	2.6 2.6 0.0	47 14 33	1 2 4 4 1
1.6911.1	104	0000	5 <b>5 6</b>	104
	TOTEA-CONUS TO SCHOOL FROM SCHOOL	UVERSEAS TO CORUS TO SCHOUL ROTATION UTHER	CORUS TO OVERSEAS FROM SCHOOL LEVY	COURSIDS TO OVERSEA

FIGURE 19 (continued)

15 01 1 01 1 0 01

N 1 1	LIVILI	LEVEL	11711 5	1.1 441 7	LEVIL 9	TOIAL
3365		2955	161	31	1.7	0959
3365		O	′	2	٣	3377
0		2779	<b>&gt;</b>	0	3	1612
c		176	176	5.8	1 1	392
		671	2960	7350	357	6338
0		0	Ξ	0	0	c
<b>C</b>		671	2560	2350	355	4336
c		c	Ξ	0	2	2
C		969	2565	2260	350	5811
D		94	=	0	0	44
_		602	2505	2260	350	5717
		C !	3 I	0	0	0
3364		4322	1,04	4641	467	19709

FIGURE 19 (continued)

16 01 29 11145 50

	LFVFL .	LEVEL 3	5 1 1 2	1.1 VE 1 7	LEVEL 9	TUFAL
17.1 ca = ( 0100 s	949	969	£ 3	33	£.	1461
1 ( SCHO) E	949	0	ū	0	0	646
FROM SCHOOL	С	630	C	0	С	630
, 1177	Ū	99	н3	33	e	581
OVERSEAS TO CONUS	0	251	1,27	339	240	1357
10 SCHOOL	. 0	C	ח	0	0	0
HUTAIION	0	25.1	# 2°5	333	240	1348
UTHER	0	Ū	κ.	9	0	<b>Э</b>
CORUS TO OVERSEAS	0	262	497	325	235	1314
FROM SCHOOL	C	65	С	C	0	59
LEVY	Û	197	465	325	735	1249
SEAS TO DVERSTAS	C	0	3	0	C	0 .
1. 1.41	A44	1209	2011	164	87.5	4132

FIGURE 19 (continued)

--

TOTAL LEVEL LIVEL 7 . . . 5 11A11 1 1 3 52 7 ~ LFVFL 4 1 1 1 1 1 1 5 3 2 46.12 LEVEL OVERSEAS TO OVERSEAS COMUS TO OVERSEAS CONTRACTOR COMUS FROM SCHOOL FROM SCHOOL 1 . Cx A = ( 011 d) TegHDS 61 For SCHOOL ROTIVION JIMER 11 0 %

FIGURE 19 (continued)

	1 717	1.1.1.1.1	6 3 18 3 7	LIVEL 7	LEVEL 9	LOIAi
< (1970) ) + (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	911	Ş	2	0	7	196
308B35 01	108		=	0	0	106
FLOM SCHOOL	С	T.	Ξ	0	0	
1.1.47	9	0	3	0	<b>.</b>	₹.
OVERSEAS TO COUDS	0	6-	7.0	9 6	+ 1	201
10 SCHOOL	=	c	Ξ	0	0	0
X 1 1 1 1 0 1 2	Ξ	17	6.7	9.6	<b>*</b>	961
OTHER	C		<b>~</b>	0	0	S.
COURTS TO OVERSEAS	0	3.3	9.0	80	ç	109
FROM SCHOOL	c	6.1	=	. 0	0	61
1 F V Y	Ξ	<del>1</del> -	640	80	9	1 '5 0
OVERSTAS TO OVERSTAS	÷	Ċ	Ξ	0	0	0
The second	1 2 - 1	1	† = ; - ; - ; - ; ; ; ; ; ; ; ; ; ; ; ; ;	178	F.C.	995

FIGURE 19 (continued)

	1 1 1 1 1 1 1	11/11		1 + VE1 7	LIVEL 9	10101
1 1 1	3.194	2529	3.	36	2.1	6117
	3 3 7 13	3	•	3	3	3405
January County	<u>c</u>	2480	\$q <del></del>	<b>e</b>	2	2506
١ ٨ ٠	-	2) <del>1</del>	: -	59	16	566
CALISEAS IN COMUS	Œ	331	5447	2139	236	5451
100k3s et	Ξ	O	Ξ	C	0	0
E 11 A 1 1 04.	Ξ	329	2739	2131	733	1,432
. HFF	Ξ	2	Ş	œ	£ 3	1.9
SA 12 TO THE SEAS	Ξ	904	5006	2013	209	0665
February Canadi.	Ξ	383	0	0	-	384
7.2.	Œ	521	2364	2013	208	6106
G * SL G RU OVEKSEAS	=	68	10.5	296	4.6	146
- -	11.11.1			1 6 5 7	512	17964

FIGURE 19 (continued)

17 5 150 5 TO 91

	1 34641	LEVEL	2 · · · · · · · · · · · · · · · · · · ·	LIVEL 7	LEVEL 9	TuiAl.
Ticle A = Counts	6.1.6	372	<u>.</u>	25	01	X 0 3
Joon 25 Jos	516	С	Ξ	С	0	516
JOODES NOW	0	334	-	0	0	3.45
	=	38	<del>-</del> -	25	0.1	117
OVERSEAS TO CORUS	0	129	186	229	167	911
100.05 0.1	С	0	3	0	0	0
RETAILOR	C	128	1.7.5	218	165	885
STHER	Ξ		1.2	Ξ	2	26
CURUS TO OVEPSEAS	Ü	242	968	102	64	246
ткам 5Снаот	0	6 + 1	0	0	0	149
1. F. V.Y.	C	93	350	201	641	143
OVERSEAS TO OVERSEAS	E !	86	123	46	5.6	182
lead	614	678	÷ 1 × 1	105	157	3102

FIGURE 19 (continued)

A SECTION OF STREET

	LEVEL 1	LEVEL 3	to the visit	1 1 1 1 1	LEVEL 9	TOTAL
\$1000 ) - Mary - 1	3865	2816	767	8 9	7	B B B S
1001-15 %	341.5	C	<i>*</i>	-	0	1810
Feda SCHOOL	C	2798	C.	-	-	2810
1.4 V Y	C		227	99	1 3	324
TENSEED THE CONUS	C	436	30:71	2350	458	4315
160175 34	Ξ	С	Ξ	Ξ	0	С
volation .	c	433	69.58	2328	452	6272
1346	÷	€:	~_	2.2	•	£ 4
SAS IS THE RESEAS	Ξ	9701	1600	2311	445	6823
1 40 00 1	٦	535	-	ت	C	5.35
11 V ?	٥	541	16.53	2311	445	62BB
OZENSEAS TO OVERSLAS	c	c	2	0	0	0
-	 	1111111		6075		28007

FIGURE 19 (continued)

<u>..</u>

.7. . .

5 9 5 IUTAL 16 0 16 0 2 0 0 5 I 0 15 0 > LŁVEL 7 137 7 0 0 0 69 69 86 155 С 0 = = = = = ?= = **⊅ ≯** 1 / / 1 105 105 5 C 15 0 - 1 - -<u>.</u> <u>-</u> --Ξ Ξ ==== 1:1 ---WERSERS TO OVERSERS USERSEAS TO CONUS CODS TO DVEASEAS FADM SCHOLL Listanda Fidal serent Lilek-(OBU) VOTALION PEREK Ter SCHOOL 1 / 1 LIVY

105 105 142

140

1 % 1

161

FIGURE 19 (continued)

.--

9665 3385 4316 181 8 2645 5180 7430 5334 462 16912 1011 775 3 657 945 259 > LIVEL 2100 / 13/11 30 2068 2111 _ 2068 0 4/11 1. 11111 114, ; -2008 2056 54 37 6837 Livii 257 0 255 2 776 462 अस्ट्रिभ 2426 1116 314 1 11.11 1 1 1 1 1 1 1 1 33330 33500 6 c = = Ξ IVERSEAS (I : SEA 5 CONUS 71 50 1009 . 70 0041 SOLATIO. CUSERSEAS : 7 . 1 . 1 . 1 S. 1 . 1 . 43866 ۰۰. د ۱۰ 1.1 5 7 1 4 1 1 1

FIGURE 19 (continued)

10 01

	Livit	1.1 VE L 3	· -	13.84. 7	FVEL 9	TOTAL
To be Andrews	475	391	15	36	7	948
THE SCHOOL	4, ۲	Û	3	0	0	475
F Dri SCHOLL	Ξ	376	7	0	0	380
· · V Y	0	15	8.7	36	ι,	143
OVERSEAS TO COMUS	0	179	4 is 3	239	<u> </u>	186
100HDS J1	<b>.</b>	0	0	0	0	
TELESTION	0	178	37.3	228	111	956
JIMER	С	-	10	-	en	25
SA ISTERIO OVER SEAS	c	300	₹3. <del>1</del>	243	989	70
FROM SCHOOL	c	7.3	С	0	0	7.3
<b>★</b> > <del></del>	<b>C</b>	227	452	243	186	1104
Or orstablic //RSERS	= 1	0	Ξ	0	С	
10:10		9/8		815	17.	3110

FIGURE 19 (continued)

	LEVEL 1	LEVIL	5 13031	LEVEL 7	LEVEL 9	TUTAL
ich a-co.	3651	27.16	7.8.5	<b>1</b> &	38	4791
( * ) ·	3651	C	0	<b>3</b>	0	3655
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C	2711	<del>-</del>	ਝ	0	2719
人名英日	C	57	781	7.3	38	417
OFFICE AS THE COMUS	С	414	7117	2178	396	5860
16.5645	c	Ü	.:	0	0	0
	E	40.4	<b>~5+</b> ~	2154	395	5885
** <del>**</del> <del>**</del> **	5	: ) T	07	24	-	5.5
COLES TO TRIBLAS	Ξ	965	2118	2156	380	6779
Ta 'S	С	615	Ξ	0	0	615
	C	350	2118	2156	180	5664
OLDEN AND TO OVERSEAS		C :	<b>T</b>	0	0	0
	1551	·	13 4 7	4415		14930

FIGURE 19 (continued)

	1 1301	LFVLL 3	LIVEL G	LIVEL 7	LEVEL 9	TUTAL
CALEA-COMPS	1115	105	Ξ	C	c	010
1000035 01	105	ರ	Ξ	; c	· c	(
FBOM SCHOOL	c	105	5	; C	) C	105
1	C	C	Ξ	C	0	0
OVENSEAS TO CONUS	C	5	43	62	80	173
LO SCHOOL	С	0	0	0	0	
ROTATION	С	7	7	42	<b>3</b> 0	1 1 R
J. HER.	Ξ.	<b>~</b> .	~	0	0	7
Comp. 19 OverSEAS	Ξ	75	90	e .	<b>5</b>	**
FROM SCHOAL	<b>c</b>	0	<b>S</b>	0	0	C
	Ξ	25	99	8 1	6	181
UVERSEAS TO OVERSEAS	Ξ	0	5	0	0	. <del>.</del>
•	! ! ! - ! -	1 3 6 7 1	1 5	143		513

FIGURE 19 (continued)

	1 11011	LIVELS	5 1 (2.1.)	1 1 1 1 1 1	LEVEL 9	TUTAL
7.:20 J.	5345	2370	1.61	49	61	1864
100, 21	ال مع مع	σ	=	Ŧ	0	3349
-		2370	1.0	3	0	2374
\- 3	Ξ	=	1.54	-	5-1	25B
THOSE THE COURS	2	233	61 12	1971	230	4953
tage 25	ت	C	Ξ	C	0	0
	c	22 H	25.15	1957	730	4430
	Ξ	មា	7	1 4	0	7.3
SENT TO LESEAS	-	1/9	3687	1940	617	4225
1. 3.1 . (1.11)	2	547	•~	0	0	547
1177	Ξ	124	7305	1940	617	4678
TASER TO OTHESTAN	C :	Ü .	3	C	0	0
		1,774	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3460	895	18189

FIGURE 19 (continued)

2771	116	9 A S		H + H	36.6	
1 t. 1 t t 1		1 1 1 1 1 1 1	6 1 1 1 1	1 1 1 1 1 1	111111	-
0	0	0	0	0	0	SEAS TO DVERSIAS
986	191	216	183	226	=	. r v Y
89	0	c	С	6 H	2	TOURDS WORL
1054	191	216	383	294	Ü	C COS TO OVERSEAS
32	-	10	91	ស	Ξ	2 DER
815	165	197	181	176	=	NOTATION
С	0	0	Ξ	Ω	2	10000 C
407	991	207	£ 43	1 H I	Ξ	00.17852AS 10 CONUS
159	19	32	~ ~	25	C	· ,
345	O	ū	<del>.</del>	341	C.	TOURDY LOVE
306	0	0	Ξ	C	3114	1000000
3 × 0	61	32	187	366	30.6	SOURCE STATE
TOTAL	11111	1 11011	7 11/2	111011		

FIGURE 20: S3 Requirements and Authorizations for Year 2

C :: TE GOMY	سا ا_ جـ	5K1LLS: VEL 3	ار دو ۷	<b>.</b> 	1. F V E	17	L 6.	٠.	TOTAL	, P	PCT OF
ر. 1. د	V	H		(×)n	A	1-B1- (%)	V	B (%)	Y	(%)H	TOTAL B
-	•	(100)	22	22(100)	31	31(100)	12	12(100)	7.1	71(100)	0.5
	12	12(100)	21		64	49(100)	7.	12(100)	54	64(100)	0.0
· •	=	14(100)	67		165	165(100)	28	28(100)	274		2.0
/ 1	•	(001)9	25	25(10c)	1 6	16(100)	<b>)</b>	(***)0	47	47(100)	0.3
10	3	91100)	7.3		55	55(100)	<u> </u>	(•••)	137	137(100)	0•1
; •	<b>3</b>	6001)6	40	40(100)	27	27(100)	20	8 (100)	B 4	84(100)	9.0
. <b>.</b>	•	7 ( 1 0 0 )	132	132(100)	95	85(100)	<b>3</b>	4(100)	228	228(100)	1.6
7.7	75	7511001	338	3381193)	191	181(100)	28	281100)	422	622(100)	4 0
7,7	0.6	1001106	703	708(100)	633	633(100)	58	54(100)	1489	1489(1001	10.8
5.5	-	11130)	`	7(100)	•	6 (1001)	0	( • • • ) 0	17	1711001	1.0
~ 7	-	111001	Ð	81100}		111100)	၁	01)	70	2011001	0 • 1
3.	2	2(100)	'n	5(100)	1.7	Ξ	0	( • • • ) 0	6-	19(100)	7.0
17	290	290(100)	1730	1730(100)	1087	1087(100)	4	64(100)	3201	3201(100)	23.1
<b>7</b> ti	5 4	24(100)	162	1621100)	122	122(100)	23	23(100)	331	33111001	7.4
5.7	171	171(100)	1192	1192(100)	8 ዓ ዓ	699(100)	167	192(100)	2429	2429(100)	17.6
9 <b>.</b>	5.8	56(100)	344	344(100)	246	246(100)	0	(•••)0	648		4.7
15	C.	3(100)	21	21(100)	25	25(100)	70	4011001	89	89(100)	9.0
37	119	119(100)	441	441(100)	254	254(100)	33	33(100)	847	847(100)	6 . 1
زا	195	19511001	1151	1151(100)	503	504(100)	86	98(1001	1952	1952(100)	1 4 • 1
45	11	77(100)	366	366(100)	241	241(100)	61	1001)61	703	703(100)	5 • 1
<b>3</b>	5.4	54(100)	43	43(100)	247	287(100)	33	33(100)	417	417(100)	3.0
15	15	151103)	95	56(100)	Ŧ	44(100)	'n	8(100)	120	120(100)	6.0
	1 1 1	* * * * * * * * * * * * * * * * * * * *	 		1 1 1	1 1 1 1 1 1			1 1 1		
TOTAL	1238	1238(100)	7569	(301)7560	4981	4987(100)	799	662(100)	13839	13839(100)	100.0

FIGURE 20 (continued)

CATEGORY 2 SKILLS:

	L E V	LEVÉL 3	L f. V J	۲ <b>۱</b> 5	<u> </u>	£L 7	EVF	6	101		30.100
5). (	Y	B (%)	V	18) 11	V	(8)				ا ;	
5	355	340 081	1 7 4	6126 001			ċ	1 1	1 4	_	
	1 6		- i		700	_	۲ ک	636 68)	1550		
'n	<del>^</del> -	191191	2β	28(100)	<u>ም</u>	_	7	2 ( 100 )	6		
٥	151	148( 98)	483	_	573	_	6	000			
	23	23(100)	- 67	106 199	30		7	1	1 7 7 1		
æ	***	180 ) ( 9	- 4		) (		- (	100111	202		
· :			- ·	RA	707	_	- - -	31(100)	443		
<b>,</b>	<del>า</del>	176 )05	25.2	_		_	20	20(100)	357		
1 O	67	166 931	639	628( 98)	553	544( 98)	1	40( 98)	1 2 9 9	100 1000	
	0	(•••)0	9 1	_	31						
7.1	30	P)	212	٠	2:2		) u				
, -	,				7 7	_	<u> </u>	1001161	469		
7 7	9/	(1.1. ) 5/	434	_	394	_	<b>)</b>	186 165	969		
7	9	16(100)	5.9		6.5	_	0	( • • • ) (	30.		
10	3.8	37( 97)	217	214(99)	200		2 .	100 100	7 7 7		
26	7.7	766 991					- L	16/ 107	0 / -		
:	• ! • !		-	181 1101	0.4.2		۲,	241 961	803		
		i	1 1 1 1		1 1 1 1	* * * * * * * * * * * * * * * * * * * *					
TUTAL	<b>\</b> *5	9321 941	3417	33641 991	3353	32461 981	417	4101 981	B134	80021 98	0.001

1	PCT 0F	TOTAL B	1 • 5	5 . 4	2.7	5.4	5 • 4	7.7	7.7	2.7	3.3	13.9	9.0	5.4	15.7	7.1	14.5	11.8	1	100.0
		·	971	971	971	971	971	971	116	176	471	471	116	97)	971	971	971	971		97)
	۸۲	)8	333(	5.35	5921	1177(	11796	595 (	1697	592(	7201	3048(	140(	5271	3446(	12951	31886	25921		192612
	TOTAL	V	344	553	613	1220	1220	615	1756	613	745	3154	7 7 ~	546	3566	1616	3299	2683		27687
		- 8	951	196	196	94)	971	1001	971	10	196	971	1001	971	196	971	971	196	1	196
	۰	B (	500	231	53(	34(	591	12(	31(	0.1	24(	124(	5 (	30 (	137(	203(	631	102		9301
	LEVEL	V	2.1	7.7	5 2	36	19	12	3.2	=	25	128	S	31	142	210	9 2	106		496
		9	116	97)	971	971	971	961	6/6	971	971	971	97)	661	971	971	971	97)	:	97)
	<b>~</b>	8	1991	2201	3210	41.	458	1651	520(	219(	2291	1275(	06	2110	1378(	751(	702(	806(		1924(
	LF < E	V	167	121	332	425	474	171	5.44	226	237	1320	÷ 3	219	1426	111	726	834	1 4 1 1	P 6 1 R
		8	1/6	471	971	17	971	971	971	116	97)	116	981	97)	971	116	971	126		116
	<u>ۍ</u>	)	143(	1677	1691	580(	) + 9 +	3291	933(	3116	403(	1315(	436	2161	15151	4921	19/31	1349(		14461
	LEVE	V	647	237	175	009	501	340	996	322	417	1361	7	223	1568	499	2042	1396		10339
		( )	100	97)	196	97)	971	97)	971	961	971	971	(00)	196	97,	971	971	97)	;	111
:115:	~	8	8(100)	636		1541	1786									1261	4501	335(	1 1 1 1 1 1	2597( 97)
CATEGORY 3 SKILLS:	LEVEL 3	4	œ	65	3	651	781	4.5	214	ज	99	345		7.3	430	130	466	347		2686
CATEGOR		 	· ,	÷ 7	ć	37	ল	5-6	<u> </u>	)	• •	1 7	3 3	. I	1 0	. 4	· 0-	<b>,</b> 20		TUTAL

4871 4767( 98) 21208 20790( 98) 16534 16207( 98) 2043 2002( 98) 44660 43766( 98) 100.0 GRAND

FIGURE 20 (continued)

CATEGORY	<b></b> -	SK1LLS:	14 N	· ·	1 6 461	,	- F	•	TOTAL		90 1 05
	1	1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4	- (3)			- (		4014
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ب کد د	74	(001)99	7 4	_	T -	1911001	· •		771		3
,	9		•	-	) •	•	•		-	_	
5.4	53	53(100)	53	_	74	_			211	21111001	6.3
5.5	124	124(100)	123	123(100)	26		<u> </u>	13(100)	286	266(100)	8 • 5
. 95	74	24(100)	23	23(100)	2	5(100)	~	3(100)	55	1001155	9 • 1
5.7	3,4	401100	40	40(100)	95	56(100)	23	23(100)	159	159(100)	4.7
15.4	77	44(100)	11	41(100)	51	18(100)	7	7(100)	107	100111001	3.2
59	45	45(100)	45	45(100)	4.2	42(100)	9	(001)9	138	138(100)	7 • 7
<b>6</b> J	32	32(100)	2 ช	28(100)	2.9	28(100)	J	4(100)	9.5	92(100)	2 • 7
1 9	J. J.	34(100)	34	34(100)	20	8(100)	Ŧ	4 ( 100 )	вО	80(100)	2 • 4
¢ 2	57	57(100)	5.4	54(100)	1.0	10(100)	æ	8(100)	129	129(100)	3.6
63	97	26(100)	25	25(100)	1.0	10(100)	0	(•••)0	9	61(100)	9.
1.0	37	37(10:0)	36	36(100)	5	61100)	0	[•••]0	8.2	82(100)	2 • 4
2.0	6	100116	<b>3</b> -	7(100)	7	2(100)	၁	1 • • • ) 0	20	2011001	9.0
99	30	30(100)	27	27(100)	~	60116	•	3(100)	69	6911001	2 • 0
7.7	177	17711001	385	345(100)	269	269(100)	102	201(100)	1032	1032(109)	30.7
7,3	57	67(100)	113	113(100)	7 8	70(100)	7	44(100)	292	292(100)	8.7
<b>1</b>	0	0(•••)	61	1001161	2.7	27(100)	30	30(100)	16	76(100)	2.3
	1 1 1				1 1 1 1 1		1 1 1		1 1 1		*
TUTAL	184	1001)186	1245	1245(100)	724	724(100)	417	417(100)	3367	3347(100)	100.0

FIGURE 20 (continued)

CATEG	CATEGORY & SKILLS:	K11.1.5;									
	\ \	רר ארר א	LEV	/£L 5	LEVEL	EL /	LEVEL 9	١ ٩	101	TOTAL	PCT OF
SKL	1 1 V 1 1	B (%)	V	(8) 9	V	A (%)	V	AB (%)		(8)8	TOTAL B
67	1.7	161 941	. 24	24(100)	<u>٠</u>	19( 95)	7	2(100)	62	60( 97)	
P Q	<del>-</del> +	41(103)	9.0	49 ( 98)	2.0	18( 95)	m	3(100)	-		
70	75	146 941	361		196	1921 981	120	1171 981	752		43.3
70		1(100)	205			1581 94)	96	186 186	463	4541 98)	
70	0	( • • • 10	11	17(100)	•	3(100)	7	2(100)	22		1.3
S.	33	33(10:))	142	1391 98)	9.1	19( 98)	69	(46 184	325	3191 981	
	1 1	:	1 1	* * * * * * * * *	1 1 1			1	1 1 1 1		
TOTAL	147	167 1651 991	199	734( 90)	5		292	4691 981 292 2441 981 1738 13641 081 100.0	1718	140 14061	0.001

FIGURE 20 (continued)

ביון 5
(%)
18 17( 94)
1211
96 106 46
_
96 156 66
_
196 1111 61
_
_
02 98(96)
_
76 1223(94)

1527 1509( 99) 3320 3252( 98) 2111 2066( 98) 1443 1405( 97) 8401 8232( 98) 100.0 GHAND

FIGURE 21: S3 Promotion Plan for Year 2

• • • SCENARIO S3 → REDUCED YES • • •

## SKILL -1 UPGRAJE PLAN FOR YEAR 2

	LVL 1	LVL 3	LVL 5	LVL 7	LVL 9	. TOTAL
PROJECTION	•	1367	3205	1833	1370	9304
PROMOTABLES	-	1359	1324	1115	1042	6377
AUTHORIZATION	-	1509	3252	2066	1405	8232
PROMOTION RATES	0.298	0.230	0.202	0.031	0.0	-
VACANCIES	455	140	47	233	35	910
UPGRADE DEMANDS	455	455	315	268	35	•

*** PROMOTION FAILURE INTO LEVEL 5 REG = 5341 ELIGIBLES 4242

## SKILL -2 UPGRADE PLAN FOR TEAR 2

					•	
· · · ·	_ L,VL _ I	LVL 3	LVL_5	7	LVL 9	TOTAL
PROJECTION	•	. 4242	15399	15499	1760	41771
PROMOTABLES	-	4242	15399	15472	1760	41744
AUTHORIZATION		47,57_	20790	16207	2002	43766
PROMOTION RATES	0.479	_1,•	_0.ე61_	0.015	0•0, _	<b></b>
VACANCIES	4767	525	5391	708	242	11633
HPGRADE DEMANDS	4767	4757	4242	950	242	-

FIGURE 22: 53 Aggregate Results for Year 2

YEAR 2; AGGREGATE RESULTS

	LEVEL CHNG	1 POP	LEVEL CHNG	3 POP	LEVEL	POP	CHNG	7 PoP	LEVEL	9 P0P	TOTAL CHNG	AL POP
1 11125	:			! .				! ,				
92123	;	٥		•		23	t	30		12	•	76
- SEPS	c	•	-	J.	•	61		29	C	12	ភ	7.1
(EXP)	ລ	•		'n	ח	6 1		58	0	12	'n	7.1
UPG OUT		7	S	0	-	91	-	7.8	0	1 2	_	• •
+ UPG IN		7	Ŧ	4	'n	23	_	29	-		=	7.7
×1 11 +	₹ .	•	0	<b>.</b>	0	23	0	29	. 0		7	75
NET RESULT		9		; <b>†</b>		23	1					
AUTHOR1 ZED		۵		•	,	22		- E	•	12	•	7.1
SA 11.1 2	•											
ENTERING		12				17	, •	30		1.2	•	701
- SEPS	0	12	-	0.1	e	18	7	4	0	17	•	- x
(EXP)	; •	12	-	01	m	18	7	4	0	12	•	. ac
- UPG 0UT	<b>3</b> 0	7	01	0		17	-	4.5	0	12	70	7.8
N 0 9 6 1 N	0	<b>3</b>	<b>69</b>	3	01			46	_	13	20	90
21 LL +	80	12	0	<b>80</b>	0	27	•	4 6	0	13	8	106
NET RESULT	; 	. 7		. 60		27		1 -0		-		***
AUTHORIZED		0		12		21	ļ	4.0	-	12	•	• <b>*</b>
58.1.L. 3	i											
ENTERING	•	+ 1	ı	+ -	•	59	•	156	4	28	•	27.1
- >EPS	. 0	7	7	12		4.8	6	147	<b>3</b>	5	97	245
(EXP)	<b>.</b>	<del>-</del>	~	12		48	<b>&gt;</b>	147	7	2.4	7.6	245
- UPG DUT	0.1	7	12	0		4 5	7	1 4 5	0	24	27	218
+ UPG IN	0	7	<b>0</b>	01	12	57	٣	148	8	26	. 27	245
NI	0-	<b>-</b>	0	10	0	25	0	1 4 8	0	56	01	255
NET RESOLT			, , ,	: =							1 - 1	1
AUTHOR12ED		_			,		)	) u	4	9 7	0	2 2 2
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FIGURE 22 (continued)

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0	246	109	0		31	•	30	0	0		~	S
P G	0	109		1		~	31	~	60		5	3
-	*	355	_	Ŧ	9	~	0	~	0		246	
1 - RES	0	356	-108	246	191	772	-12	537	9-	83	35	6661
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EXP	0	61	7	1.7	3	23	7	45	٥	7		103
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P 6	0	<b>.</b>	13	13	1.7	39		45	-	•		103
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	501	4.5	132			7		_	0	7.1	•	I
-		4	105	0		6)	23	~	60	19	268	Ŧ
1	105	151	0 1	105	0	30		538	0	19	501	1353
ET RESU		151	• • • • • • • • • • • • • • • • • • • •		25	e oc		53	9	57	7+-	1 5
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111			:									
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(2	91	7	20	0	7	6+		98	0	_		1 60
1 540	0		9	91	20	6.9	~	89	~	6		200
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FIGURE 22 (continued)

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	0	20	7.	₹ ₹ ,	55		<b>73</b>	161	e	30	110	456
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α.	0	3.	<b>3</b>	28	25	=======================================	~	140	7	20		330
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UPS IN	0	•	22	2.2	28	132	7	1 45	7	22		330
z	7.7	16		22	0	132	0	145	0	22	22	352
15		7.		22	1 7	132	<del> </del>	45	. 0	22	2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	352
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FIGURE 22 (continued)

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(EXP)	0	30	7	27	32	147	~	861	-	12	<b>₹</b>	_
TUO SHILL	21	5	27	0	•	138	~	195	0	17	9	2
* UP 6 1N		•	21	2.1	27	165	6	204	М	70	0	419
2 LL +	7	30	0	71	0	165	0	704	0	20	7.1	3
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5K1LL 13	,		:		:	379	•	390	•	9 5		411
	• •		-	4		90.6		3,46	60	8	112	865
Ā -	<b>-</b>		2			309	5	366	<b>c</b>	4.8	112	865
- כ	9		99		61	290		360	0	£	**	721
, d			53			356	61	379	•	5.4	7 7	865
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SKILL 14	•	7	•	4	•	t U	•	7	1	_	•	138
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1105 011	<b>,</b> «	~	- 30	0	•	6	7	152	0	21	22	266
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FIGURE 22 (continued)

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FIGURE 22 (continued)

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PIGURE 22 (continued)

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FIGURE 22 (continued)

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FIGURE 22 (continued)

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FIGURE 22 (continued)

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FIGURE 22 (continued)

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FIGURE 22 (continued)

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- 466         - 465         33         1816         - 66         - 66         - 462         33         1477         53         734         10         56         462         33         1477         53         734         10         56         462         33         1477         53         734         10         56         462         33         1477         53         734         10         56         83         2         34         10         56         83         2         34         10         56         83         2         34         10         56         83         2         83         2         83         32         34         10         56         83         2         83         32         34         32         32         34         32         32         32         32         32         32         34         32         32         32         32         32         32         32         32         32         32         32         32         32         32         32         34         32         32         32         32         32         32         32         32         32         32         32 <td< td=""><td>NET RESULT</td><td></td><td>5.4</td><td>·</td><td></td><td></td><td></td><td>• -</td><td>25.1</td><td></td><td>33</td><td></td><td>· ~</td></td<>	NET RESULT		5.4	·				• -	25.1		33		· ~
466       -465       -1816       -787       -66       -62       -68       -68       -68       -62       -68       -62       -68       -62       -68       -62       -68       -62       -68       -62       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -68       -139       -323       -78       -79       -70       -68       -139       -323       -70       -70       -68       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139       -139 <td>AUTHOR1 ZED</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>287</td> <td></td> <td>33</td> <td></td> <td>-</td>	AUTHOR1 ZED		0						287		33		-
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323     466     0     323     405     1791     91     813     12     68     323     33       345     466     -142     323     -25     1791     26     413     2     68     -139     33       0     466     -142     323     -25     1791     26     413     2     68     -139     3       0     466     -142     323     -25     17973     2     413     2     68     -139     3       241     106     234     1025     58     789     17     88     518     2       241     106     234     1025     58     789     17     88     518     2       241     106     234     1025     58     789     17     88     518     2       241     106     234     1025     58     789     17     88     518     2       241     106     24     1025     58     70     77     88     618     18       241     302     1264     63     840     12     77     8     8     618     18       241     347     106     241     5 </td <td>0.PG</td> <td>$\sim$</td> <td>143</td> <td>0</td> <td></td> <td>7 6</td> <td>1386</td> <td></td> <td>122</td> <td>0</td> <td>2.6</td> <td>~</td> <td>2307</td>	0.PG	$\sim$	143	0		7 6	1386		122	0	2.6	~	2307
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7450       1973       702       63       3         747       347       1259       - 847       - 105       - 24         0       347       45       302       234       1025       58       789       17       88       354       2         241       106       241       241       302       1264       63       840       17       88       618       1         241       106       241       241       302       1264       63       840       10       618       2         241       302       1264       63       840       12       618       2         241       341       61264       63       840       10       618       2         241       341       61264       63       840       618       2       11       2         241       347       1264       63       840       10       618       2       113       2         10       347       106       144       64       10       10       113       2       14       10       113       2       14       10       14       10       10       1	T RESUL	0	. •	7	1 ~	N	1621		613	2	89	( ~	3461
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241         106         347         45         302         234         1025         58         789         17         68         354         255           241         106         347         45         302         234         1025         58         777         0         88         618         193         255         255         255         240         177         0         88         618         193         241         255         255         241         251         241         302         1264         63         840         12         177         0         88         618         193         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         255         241         25	5 III	}	347		3	ŗ	1259		847	t	105	•	2
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1EXP1     0     15     2     12     10     43     2     43     0     6     14     11       UPG 0UT 10     5     12     0     3     40     1     42     0     6     26     9       UPG 1N     0     5     10     10     12     52     3     45     1     7     26     11       TT 1N     10     15     0     10     0     7     10     12       TH FSULT     0     15     -4     10     -1     52     0     45     1     7     -4     12       THORIZED     0     15     -4     16     -1     54     44     5     12	SEPS	0	15	?	12	01	43	7	43	0	4	<b>+</b>	
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FIGURE 22 (continued)

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	629 624 4242 3381 0	1871 1871 1871 1490 1490	1871 1871 1871 1490 1490	4871	4242	4242	0	3381	3381	3381
6hand Total 6ntering - 4871 - 5EPS 0 4871 (Exp) 0 4871 - UPG OUT3381 1490 + UPG IN 0 1490 - XT OUT 0 1490 - TT IN 3381 4871	D TOTAL RING EPS 0 EXP) 0 PG 0UT3381 PG 1N 0	EFFS FRFS FG OUT		AFI	5	=	5	•	×	•

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FIGURE 22 (continued)

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FIGURE 22 (continued)

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FIGURE 22 (continued)

SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS	34 11 05	:					ľ	,	•	i	d	(	
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ERING	UTHURIZE		0	1					6		0		œ
ERING  SEPS  G 9 1 8 0 12 0 3 0 0 1  (EXP)  UPG OUT 3 6 2 6 1 11 0 3 0 0 6  UPG IN 0 6 3 9 2 13 1 4 0 0 6  TT IN 3 9 0 9 0 13 0 4 0 0 3  RESULT 0 9 0 9 1 13 1 4 0 0 2	111		f		-				•		1		•
(EXP)     0     9     1     8     0     12     0     3     0     0     1       (EXP)     0     9     1     8     0     12     0     3     0     0     1       UPG UNT     3     6     2     6     1     11     0     3     0     0     6       UPG IN     0     6     3     9     2     13     1     4     0     0     6       TT IN     3     9     0     13     0     4     0     0     2       RESULT     0     9     1     13     1     4     0     0     2	TERIN	• :	٠.		٥.	•	7	ı	~	•	<b>၁</b>	•	m
1 EXP) 0 9 1 8 0 12 0 3 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	- SEPS	0	•		<b>.</b>	0	12	0	c,	0	0		n
UPG UUT 3 6 2 6 1 11 0 3 0 0 6 UPG IN 0 6 3 9 2 13 1 4 0 0 6 TT IN 3 9 0 9 0 13 0 4 0 0 3 RESULT 0 9 0 9 1 13 1 4 0 0 2	(EXP)	0	•		Œ	0	1.5	0	<b>~</b>	0	0	-	~
UPG IN 0 6 3 9 2 13 1 4 0 0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		E	9	7	•	_	=	0	•	0	0	•	7.6
RESULT 0 9 0 13 0 4 0 0 3	UP G 1	.0	•	~	٥-	7	-	-	Ŧ	0	0	•	<u>~</u>
RESULT 0 9 0 9 1 13 1 4 0 0 2 10812ED 0 9 9 9	11	m	•	0	•	0	£	0	<b>.</b>	0	C	<b>C</b>	~
HUR17ED 0 9 9 9 2 0			I &			' }		. —	·		0	~ = = = =	, m
	AUTHORIZED		9	ı	<b>~</b>	•	•	•	7		0		~

FIGURE 22 (continued)

	ı	ć		ç		ì		•		•		•
Z Z Z	•	nr	•	2	•	9	•	<u>`</u>	•	-1	•	=
SEP	0	30	M	27	0	36	0	12	0	m	~	901
^	0	30	~	27	0	36	0	1 2	0	~	•	108
	<b>~</b>	7.1	9	21	7	34	<del>3</del>	1.2	0	~	17	6
* UPG 1N	0	21	6	30	. 9	40	. 7	7	0	<u>س</u> ر	17	108
11	۰	30	0	30	0	9	0	7	0	C.	٥	117
NET RESULT		000	0	30	<del> </del>	. 07	7	***	0		9	117
AUTHOR1 ZED		0		30		27		5		m		69
54 111 67			1	:						٠		
ENTERING		1.7		17	•	27	•	1 9		~		83
- SEPS	၁	17	7	15	0	27	7	17	0	~	7	19
(EXP)	0	7.1	7	15	0	77	7	17	0	æ	Ŧ	19
UPG	Z.	12	m	13	7	25	ပ	17	ပ	٣	0	69
+ UPG 1N	0	12	ഹ	17	<b>m</b>	28	7	1 8	0	6	0.7	19
11	ഹ	. 13	0	17	0	8.7	0	1 9	0	e.	<b>ن</b> م	7
RET RESULT			0	17	1 -	28	10	. 6-	. 0			T
THORIZE		9		9		24	,	. 6	ı	~	i	09
4												
ıa	:	7	•	7	1	7	•	,	•	;	•	147
. v	0	; <del>,</del>	7	3.	7	. 40	7	2.7	0	• <del>•</del>	0	
. X	0	7	7	37	~	5.6	~	21	0	Ŧ	<b>6</b> 0	5.6
0	1.2	29	6	7.8	7	25	0	2.1	o	3	52	134
L2	0	5.6	12	40	5	19	7	52	0	3	52	159
Z	12	7	<b>o</b> ,	40	9	19	0	52	0	7	12	171
N T Brsul T				1 7			~ ~	25		<del> </del>	7     	
AUTHURIZED	•	0		<b>-</b>		4 6	ı	<u> </u>	)	m		112
ווי												
ENTERING	•	75	•	^	•	316	1	197	•	1.18	٠	781
	0	75	60	67	91	300	30	167	•		09	721
(FXP)	0	7.5	60	67	9 [	300	30	167	9		9	721
- UPG 0UT	22	53	15	25	28	212	~	164	0	112	9	653
UPG	0	53	77	7.4	<u>5</u>	287	2 Β	192	~		99	121
1	7.7	75	0	74	<b>O</b>	287	ດ	192	0	517	22	743
MET RESULT		7.5		1.	67-	767		192			-38	( ;
	:	0	,			354		192		117		737
		F					•					)

FIGURE 22 (continued)

:	 F	37	\s		3.	37	10.1			18	;		•	0 6 0 7		•		-	i	1032			328			1	:	
	•	9	7	~	61				ı	~ ~	0	•		5		123	123	53	-38		•	25	52	38	85	. 17	8-	,
ć	۲. د ک	90	6	<b>6</b>	92	9.2	4 6		-		-	-		C / 1	9 1	181	185	185	185	201	3.4	4 6	43	43	3	± (	1 7	. 3
	1	•	•	0	e i				•	00		,		1 3		0	₹	0	07-		•	٣	c	0	-	0	- 2	ı
3	٠ <del>١</del>	130	) i	127	143 173		158		3	<b>4</b> 4	4	7	1	730	220	216	246	246	246	569	7.1	99	9	6.5	7 4	74	* ^	7.0
	• (	5 2	ς,	7	9 -	01-	!		•	0 8				2	36	7	30	0				_	=	-	<b>3</b> -	3		
	7 -	[S]	2 .	13/	137	137	102		15	13		17.	į	286	364	333	369	369	364	385	41.	112	112	103	1 1 4	11.4	- - -	-
		9	2 :	•	0 !	-26	:		•	<b>70</b>	. ?			· •	<u>.</u>	30	36	0		:	ŧ	3	7		_	0	~~	
-	<b>-</b>	<b>-</b> :-		~	- (	-	_!		0	00		0			158	122	175	175	175	177	57	20	20	39	5.6	56	95	47
	<b>:</b> :	0	<b>5</b> (	<b>3</b>	د ا		İ	:		0 9	0		1	9	61	Зó	53	0	-2	;	•	_	7	-	17	) ) !	-	
-	• •	· 	• •		- :	-	0		0	00	0	<b>o</b>		177	177	124	124	177	177	0	57	5.7	23	<b>⊋</b>	40	57	57	5
•	•	o .	•	<b>&gt;</b> ;	•	0	!		t	00	. 0		•						0	I	•	0	0	17	0	17	0	
SEILL 70		- SEFS			+ UPG 12	) }	AUTHOR12ED	SKILL 71	ENTERING	- UPG OUT	NET RESULT	AUTHORIZED	Skill 72	5.0 L L L L L L L L L L L L L L L L L L L	(EXP)	- UPG OUT	+ UPG 1N	+ 11 1N	T RES	AUTHOR12ED	SKILL 73	• SEPS	( E x b )	- UPG OUT	+ UPG 174	Z +	· -	AUTHORIZED

FIGURE 22 (continued)

SK111 14												
ENTERING	•	۲٦	•	23	•	112	•	65	•	35	•	255
- SEPS	0	23	7	71	ኄ	107	7	58	_	31	- 5	240
(EXP)	0	23	7	7 1	'n	107	7	58	-	31	5	240
- UPG OUT	7	91	'n	9	_	47	-	5.7	0	31	23	217
	0	9-	7	23	د	102	10	. 67	<b>-</b>	32	7.3	240
	~		0	23	0	102	0	67	0	32	-	247
	; ; ;	23				- 20	2			12		247
AUTHORIZED.	•	30	2	23	•	121	ı	9 0	•	2.5		233
	i				!	, I	•	٠				
54144 75 F4758146		50		5	•	107	•	4.5	ı	6.3	•	3 16
56.95 •	0	05	· •		, rr	104	60	5,7	3	5 6		315
(dx.i)	0	20	•	45	n	104	60	57	<b>3</b>	5 9	21	315
- UPG 0UT	5 1	35		35	0-	6 6	-	5.6	0	5		280
	0	35	2	50	0.7	105		9	-	09		315
+ 11 IN	51	. 20	0	20		105	0	45	0	0.9	5 1	330
NET RESULT		5u	i 	. 05	. 7-	105	. 0	65		609		330
AUTHOR12ED		C		48		103		79		95		275
SK11.176												
ERTERING		0	•	0	•	<u>+</u>		ى	•	~	•	12
- UPG OUT	0	0		0	-	-	0	ഹ	0	7	-	
UPG 1	0	: 0	0			£1,	-	•	9	7	-	2.1
NET RESULT	· .		i   • 0		! —		· • • •	} * • • • • • • • • • • • • • • • • • • •	; 0	2	0	
AUTHORIZED		0	!	0	İ	17	:	m :	!	<b>7</b>		
SKILL 77	!	•		:	:	<b>,</b>		•		7		1
Z	•	•	•	•	•	-	•	9	•	07	2 1	1 2 3
- SEPS		_	_	•		4 2	Ŧ	32	0	56	^	9 -
(EXP)	0	_ ′		. 9	7	£ 2	<b>Ŧ</b>	32	0	56	^	9
- UPG DUT	7	ī.	-	ភ	ស	<b>5</b>	-	31	0	7 6	•	101
+ UPG IN	0	2	7	1	-		'n	36	<b></b>	27	<b>٠</b>	9
+ 11 LR	<b>~</b> [;]	7	<b>o</b> .	7	9	-	0	36	0	27	7	9
NET RESULT	. 0		i .		. 91	' - T		36	! ! -	27		9-
AUTHORIZED		0	,	•		c		7		24		· -
1 1 5 7 1 1 1 1 2 1		ì		,		) )		)		ı		; •

FaiURE 22 (confinaed)

SAILE 78 Entering	•	7.0	r	36	ı	9	•	5.	•	0.5	•	245
- SEPS	0	<b>2</b> 6	~	54	~	63	7	50	~	47	15	230
(ExP)	0	97	7	54	~	83	^	50	~	47	15	230
- UPG 0UT	<b>æ</b>	<del>2</del>	٥	18	30	7.5	-	6 #	0	47	23	707
+ UPG IN	0	8 1	30	7.6	•	8.	20	57	-	4.8	23	230
Z 1 1 + 1	<b>3</b> 0 I	97	0	26	ם י	. 18	ם י	57	0	48	<b>60</b> 1	238
MLT RESULT	: :	20	0	26	c.	1 8	0	57	-2	4 B	7-	238
AUTHOR12ED	i	ວ່	i :	52		9.0		5 4		4.9		218
5K111 79												
ENTERING		0	•	0	•		•	:• <b>•</b>	, <b>1</b>	. 2		25
- UPG 0UT	0	0	0	0	7	51	0	•	0	7	7	23
+ UPG IN	0	c		0	0	15	7	<b>3</b>	9	7	7	25
HET RESULT			0	. 0	-2-	15	2 -	. 60	. 0	2	0	25
AUTHORIZED	1	0		0		20	į	<b>.</b>	!	<b>~</b>		7 6
SA111 80												
ENTERING	<b>.</b>	31	•	32	•	9.5	t	9	•	85	•	305
- SEPS	0	31	<b>~</b>	53	~	89	<b>6</b> 0	5.7	•	19	70	285
(Exb)	0	31	ന	58	~	8 9	30	5.7	9	19	20	285
- UPG 0UT	6	22	7	22	<b>6</b> 0	8	-	9ς	0	19	25	240
+ CPG IN	0	7.7	, <b>5</b>	3	~	. 88	3	49	-	80	25	285
NT 11 +	6 1	31		31	0	: 80 80	0	49	0	80	•	294
NET RESULT		1 1 5		31	   <del>   </del> 			. +9		80		H 6 Z
AUTHORIZED	ı	<b>.</b>		2.9	į	9.6	:	63		83		270
SAILL BI EATERING		0	•	0	!	-	• 1	<b></b>	•	: 1	•	6-
NET RESULT	. 0				1 3	!	: : :	· !		1 1 2	10	6

FIGURE 22 (continued)

FERNOTISE D 48 6 42 3 109 7 49 2 40 18 4 42 100 110 9 57 1 41 14 14 46 10 110 9 57 1 41 14 14 14 10 110 1 57 1 14 1 14 14 14 10 110 1 57 1 14 1 14 14 14 14 14 14 14 14 14 14 14	SKILL 82	•	æ 3	٠	3	ı	112	•	4	•	4.2	•	306
		۱ (			9 (	. *	4 6	r	n (	•		0	
	• SEPS	0	æ 7	•	42	7	104	•	<b>7</b>	7	) F	-	7 4 6
UPG UUT 14 34 10 32 9 100 1 48 0 40 10 10 9 57 0 41 10 1 10 1 10 1 10 1 10 1 10 1 10	(EXP)	0	1 3	•	42	n	109	7	40	7	40	8	Z H Z
UPG IN U U 34 14 46 10 110 9 57 1 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• UPG OUT	<b>T</b>	7+	01	32	•	001		48	0	<del>1</del> 0	まっ	254
TT IN 14 44 0 46 0 110 0 57 0 41  TRESULT 0 48 -2 446 -2 110 1 57 -1 41  THE LAST 1 0 25 2 2 3 4 101 13 81 6 101 2  THE LAST 1 0 25 2 2 3 4 101 13 81 6 101 2  TT IN 7 25 0 25 96 10 89 2 103 2  TT IN 7 25 0 25 96 10 89 2 103 2  TT IN 10 0 0 0 0 0 15 3 2 1 13 1 20  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 2 1 1 30  TER SULT 0 0 0 0 0 0 15 3 3 2 1 1 30  TER SULT 0 0 0 0 0 0 1 1 3 3 2 1 1 30  TER SULT 0 0 0 0 0 0 0 1 1 3 3 2 1 1 30  TER SULT 0 0 0 0 0 0 0 1 1 3 3 2 1 1 30  TER SULT 0 0 0 0 0 0 0 1 1 3 3 2 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3	2 0 0 0		+(	<b>*</b>	4.6	10	110	•	5.7	-	7	7	288
TITER SCULT 0 48 -2 46 -2 110 1 57 -1 41  THERING C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 23 4 101 13 81 6 101 2  TEXPO C 25 2 2 3 4 101 13 81 6 101 2  TEXPO C 25 2 2 3 4 101 13 81 6 101 2  TEXPO C 25 2 2 3 4 101 13 81 6 101 2  TEXPO C 25 2 3 4 101 13 2 2 2  TEXPO C 25 2 3 4 101 13 2 2  TEXPO C 25 2 3 4 101 13 2 2  TEXPO C 25 2 3 4 101 13 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 LL +	+-	418	0	9+	0	_	0	57	0	<del>,</del>	<del>*</del>	302
FIT RESULT 0 48 -2 46 -2 110 1 57 -1 41  JUNGRIZED 0 25 2 23 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 25 2 2 3 4 101 13 81 6 101 2  LEXP) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							;						
	<u>۔</u> لا	0	37	-2	4	-2	011	-	57	7			305
SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS   SEPS	5		o :	: :	47		108		5.1				245
SEPS         25         25         4         101         13         81         6         101         25         5         4         101         13         81         6         101         2         5         96         10         89         2         101         2         7         0         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         2         101         101         2         101         2         101         2         101         101         101         2         101         101         2         101         101         101         2         1	±												
1	N				. 52	•	105	•	46	: 1	107	•	356
The part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the	SEPS	0		7	23	<b>₹</b>	9	13	8	•	101	52	331
TT 1N 10 33 -10 10 91 2 79 0 101 2 101 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(dx d)	0		7	23	<b>3</b>	2	- 1	18	•	101	52	331
FT 1N 7 25 5 96 10 89 2 103 2 17 1N 7 25 6 96 0 89 0 103 -1 17 1N 7 25 0 25 0 96 0 89 0 103 -1 17 1N 7 25 0 25 0 96 0 89 0 103 -1 17 1N 10 33 0 33 1 10 0 10 0 0 0 15 17 18 18 18 18 18 18 18 18 18 18 18 18 18	2	^		ហ	8-	01	6	~	19	0	101	74	307
ET HESULT 0 25 0 26 0 89 0 103  ET HESULT 0 25 0 25 9 6 -5 89 -4 103  UTHORIZED 0 2 24 114 96 -5 89 -4 103  NIELI, 84  NIERING, 0 0 0 0 0 15 3 21 1 30  UFG OUT 0 0 0 0 0 15 3 21 1 30  UFG OUT 0 0 0 0 0 0 15 3 21 1 30  UFG OUT 0 0 0 0 0 0 13 1 2 22 1 31  ET RESULT 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 0 1 31  ET RESULT 0 0 0 0 0 0 0 1 1 72  UFG OUT 10 23 10 33 7 110 12 84 1 63  ET RESULT 0 33 0 33 10 110 0 0 0 0 0 0 0 0 0 0 0	0.0	0		1	25	ភ	96	10	89	7	103	54	331
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